

KV-1746R/1946R

RM-703

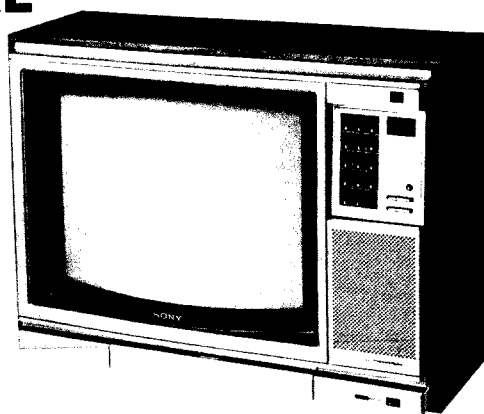
SERVICE MANUAL

US Model

Chassis No.

KV-1746R : SCC-341A-A

KV-1946R : SCC-342A-A



(KV-1746R)

α 1 CHASSIS

March, 1981

SPECIFICATIONS

Television System:	American TV standards	Power Requirements:	120 V ac, 60 Hz
Color System:	NTSC	Power Consumption:	
Picture Tube:	Trinitron tube	KV-1746R	110 W (max) 73 W (average) 2.5 W (in standby condition)
KV-1746R	43.7 cm, 17" (screen measured diagonally), 90° deflection	KV-1946R	120 W (max) 78 W (average) 2.5 W (in standby condition)
KV-1946R	48.7 cm, 19" (screen measured diagonally), 100° deflection	Dimensions:	
Antennas:	VHF: 75 Ω unbalanced (telescopic dipole antenna*) UHF: 300 Ω balanced (loop antenna*)	KV-1746R	approx. 623 (w) x 456 (h) x 472 (d) mm (24 1/2 (w) x 18 (h) x 18 5/8 (d) inches)
	* Note: Supplied with accessories	KV-1946R	approx. 673 (w) x 488 (h) x 482 (d) mm (26 1/2 (w) x 19 1/4 (h) x 19 (d) inches)
Channel Coverage:	VHF channels: 2-13 UHF channels: 14-83 (a total of up to 14 preselected channels)	Weight:	
Intermediate Frequencies:	Picture i-f carrier: 45.75 MHz Color subcarrier: 42.17 MHz Sound i-f carrier: 41.25 MHz	KV-1746R	approx. 24.2 kg (53 lbs 6 oz)
Sound System:	4.5 MHz intercarrier Output power: 1.5 W (at 10 % harmonic distortion) Speaker: 10 cm (4 inches) dia, 8 Ω	KV-1946R	approx. 28.8 kg (63 lbs 8 oz)
Video System:	R, G, B cathode drive	Accessories Supplied:	Earphone, Magnetic (ME-20B) VHF dipole antenna (AN-16) UHF loop antenna (AN-15) Remote commander (RM-703) Channel number segments Tuning aid Instruction manual
Automatic Controls:	ABL (automatic brightness limiter) ACC (automatic color control) ACK (automatic color killer) ADG (automatic degaussing) AFC (automatic frequency control) AFT (automatic fine tuning) AGC (automatic gain control) ANC (automatic noise canceller) APC (automatic phase control) AVR (automatic voltage regulator)		
Anode Voltage:	25 kV at zero beam current		



TRINITRON® COLOR TV


SONY®

CTV

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

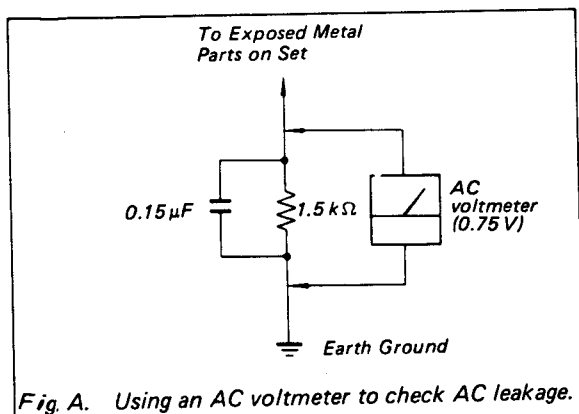
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



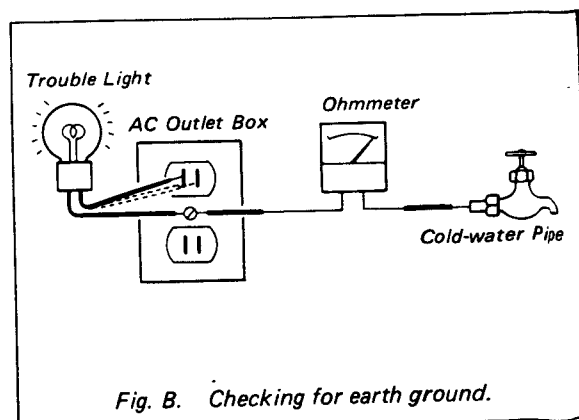
LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

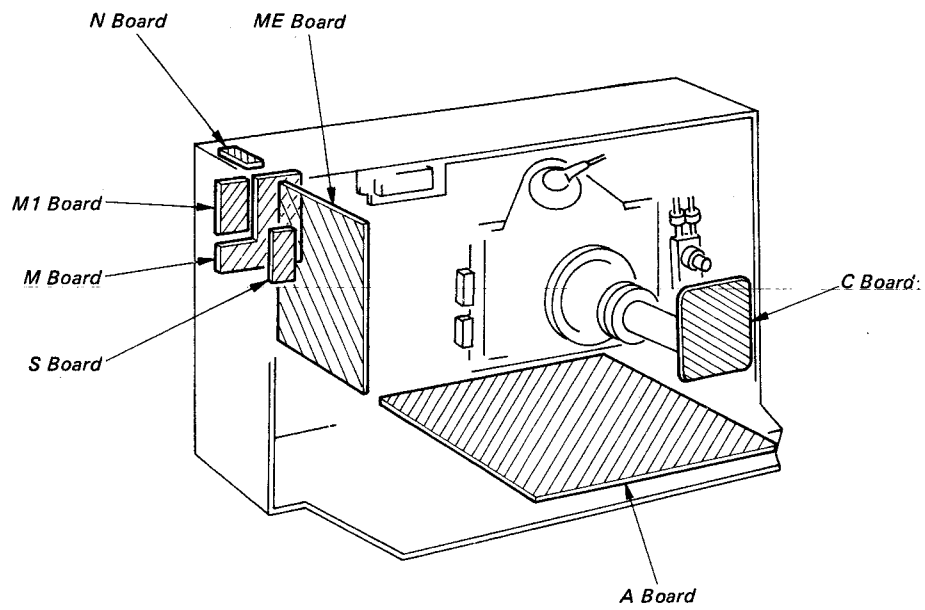
1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

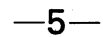
A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

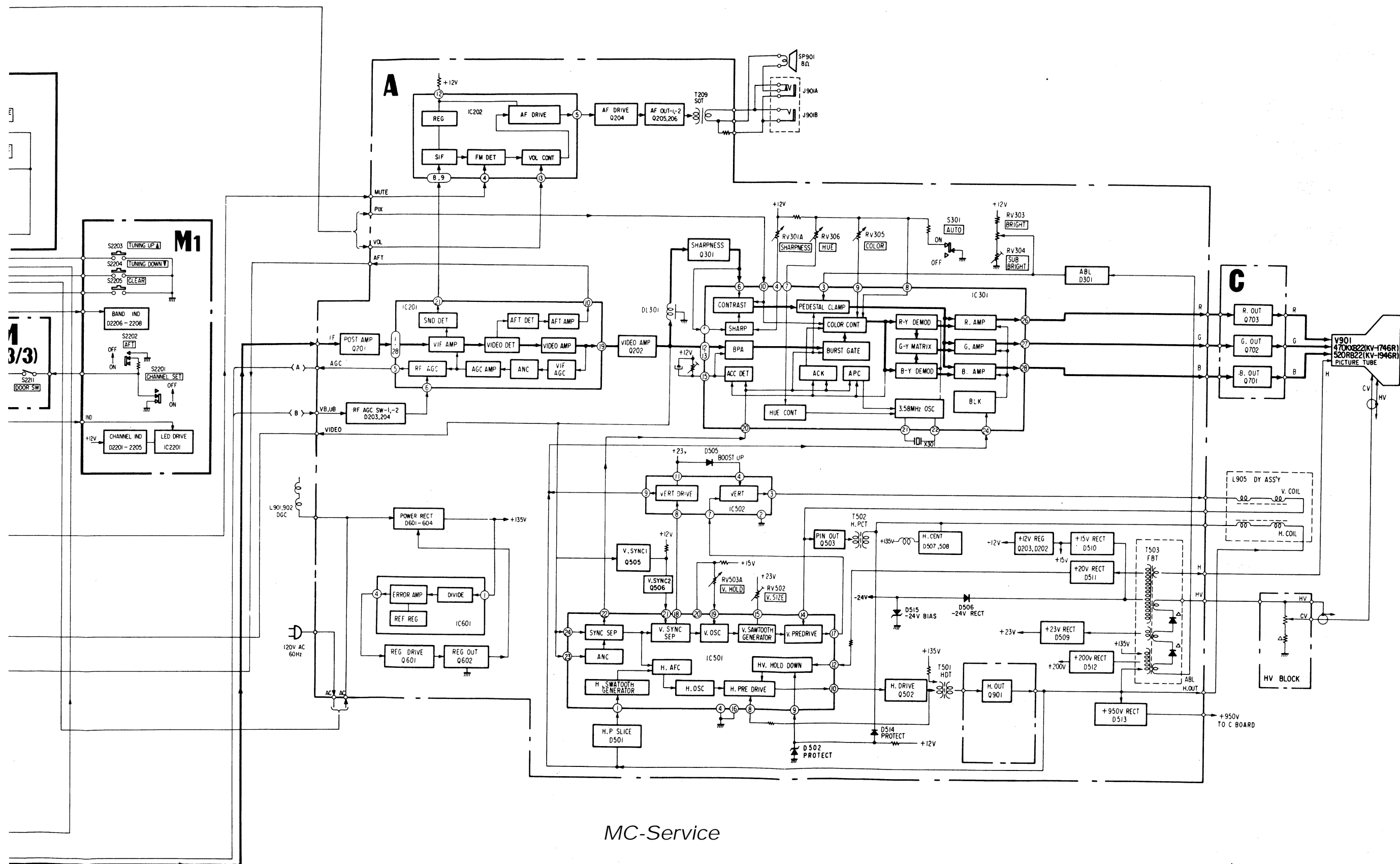


CIRCUIT BOARDS LOCATION



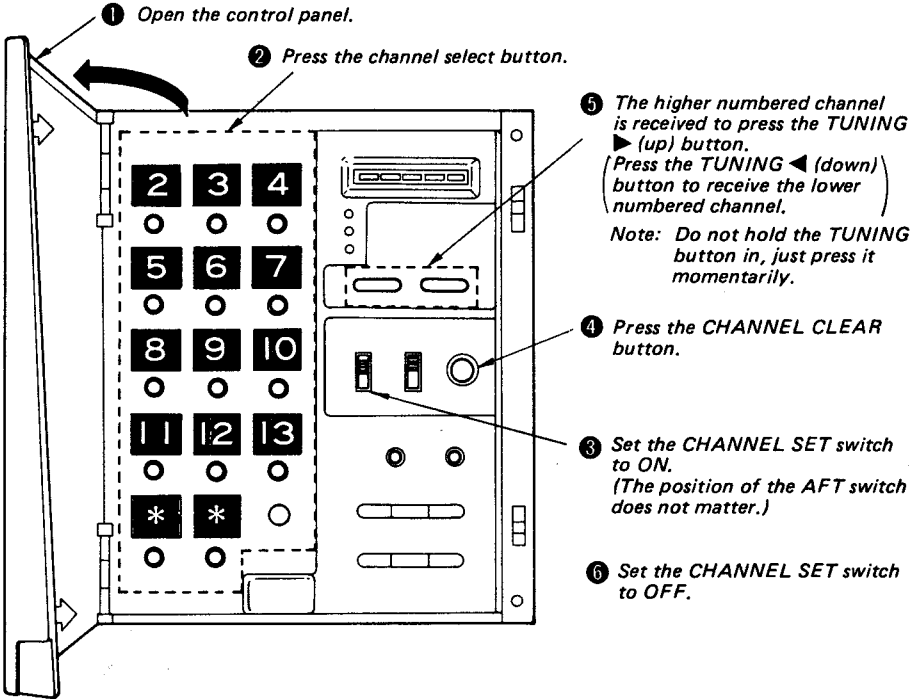
1-1. BLOCK DIAGRAM



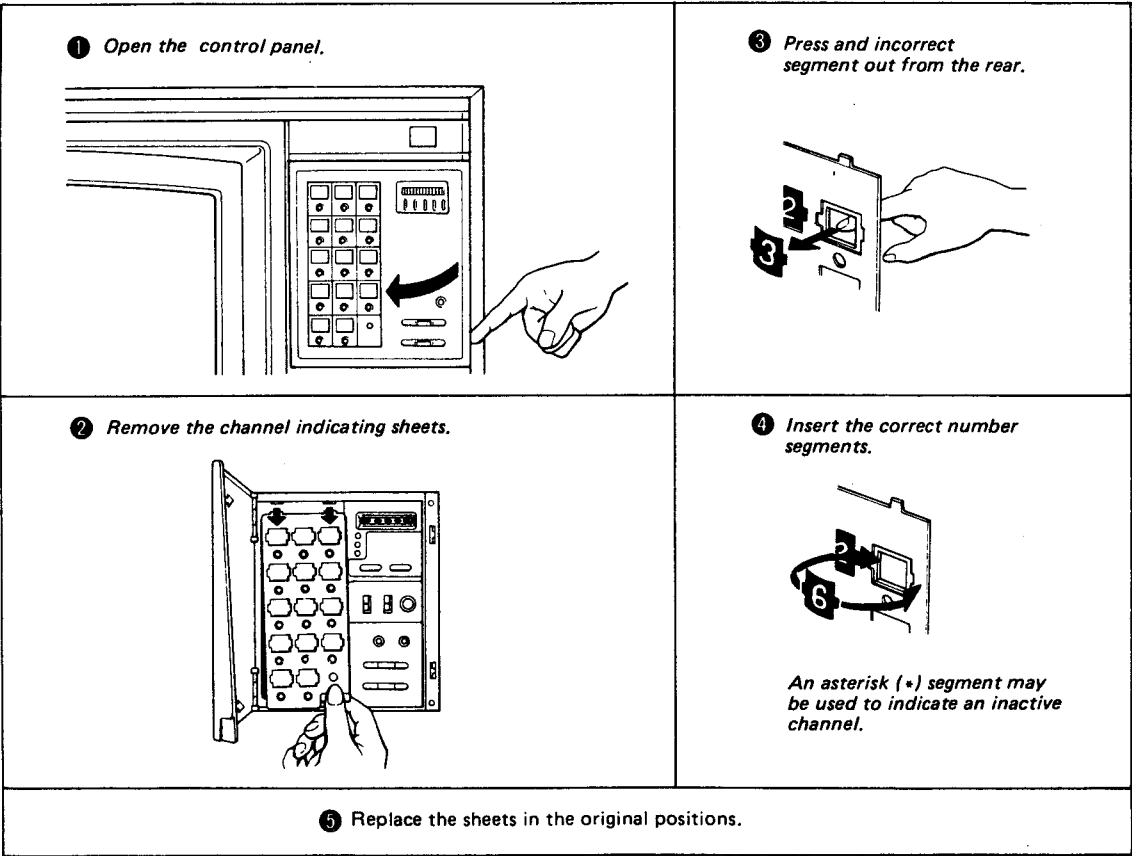


SECTION 2
DISASSEMBLY

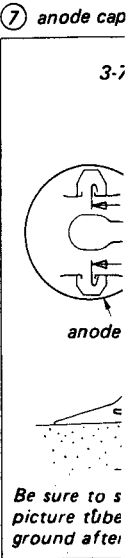
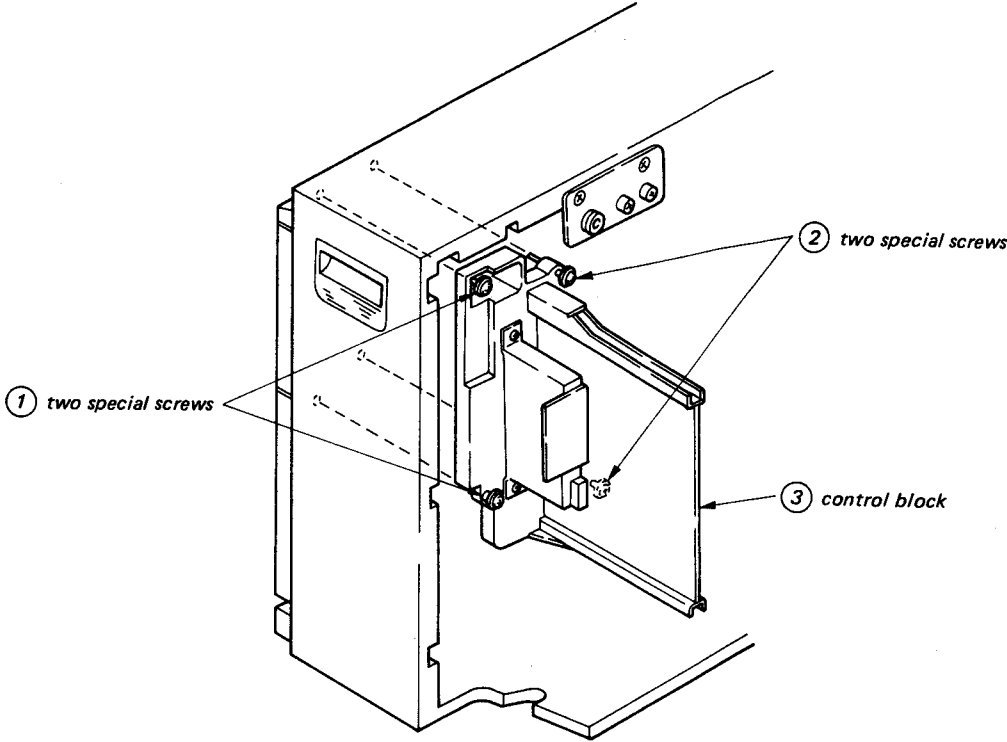
1-2. CHANNEL PRESETTING



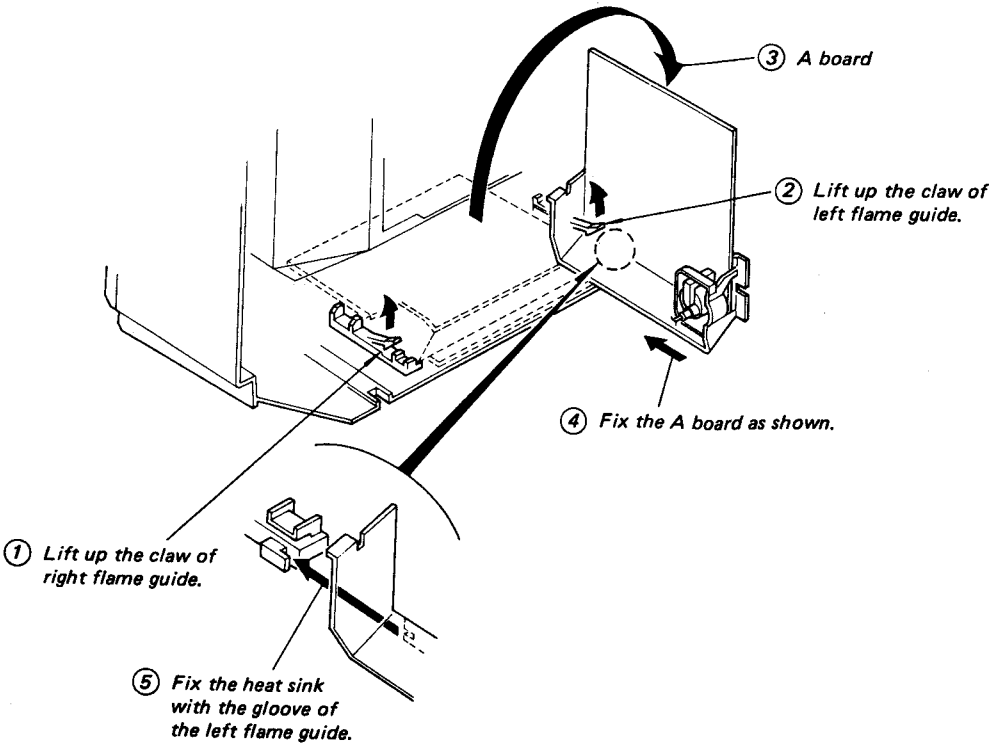
1-3. TO REPLACE THE NUMBER SEGMENTS



2-1. CHANNEL SELECT BLOCK REMOVAL

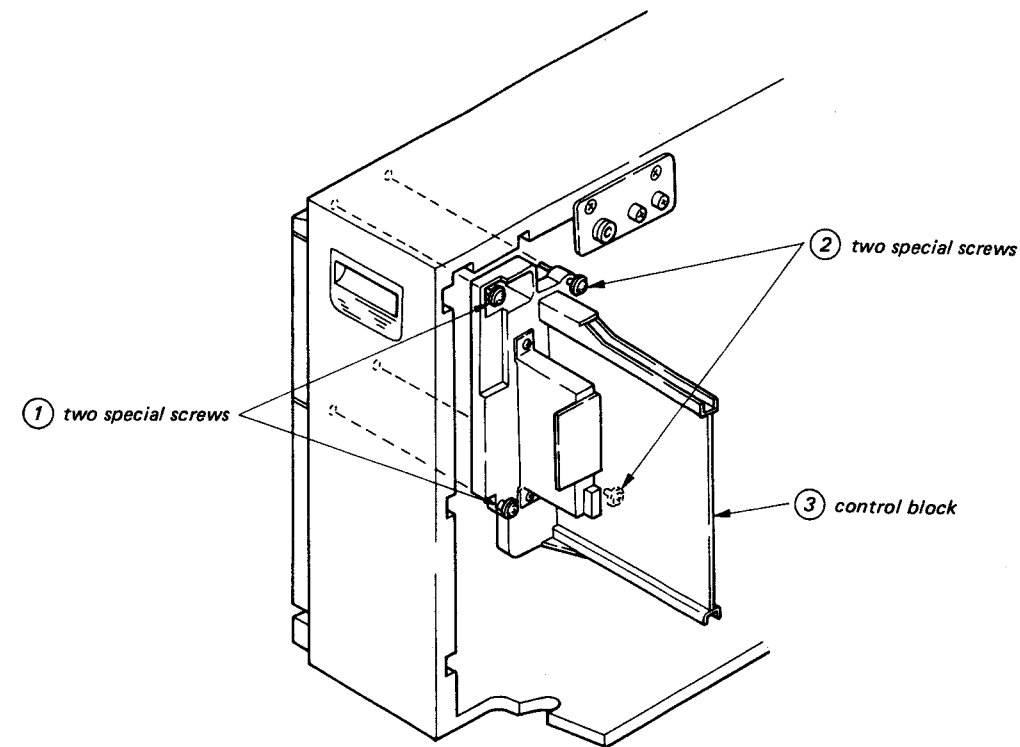


2-2. A BOARD REMOVAL (FOR CHECKING IT UP)

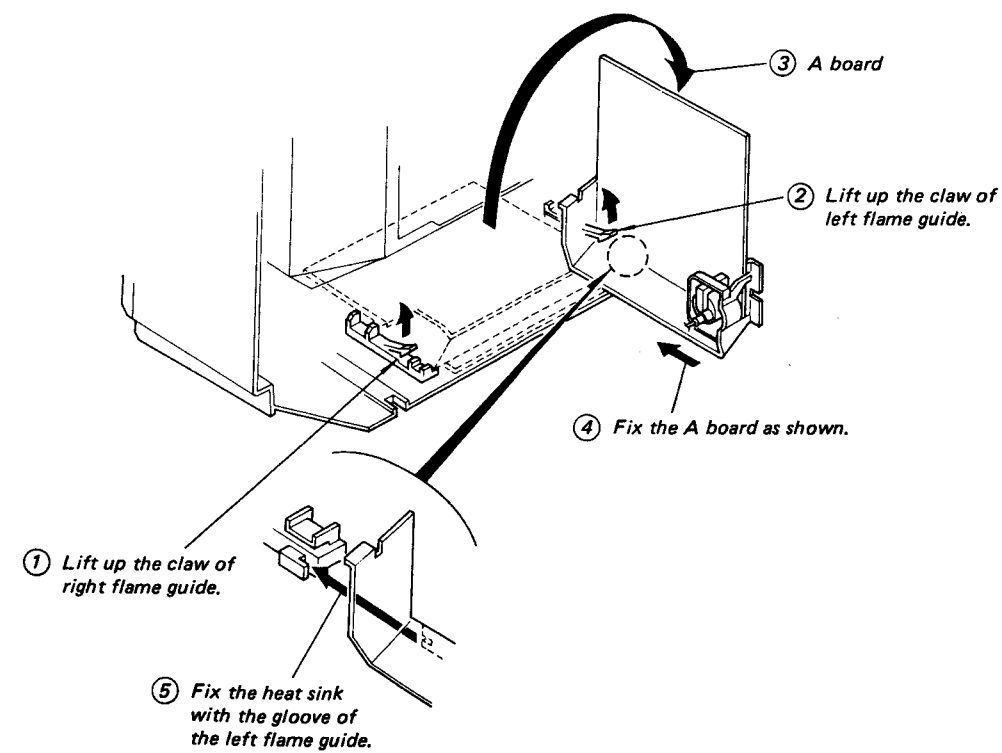


SECTION 2 DISASSEMBLY

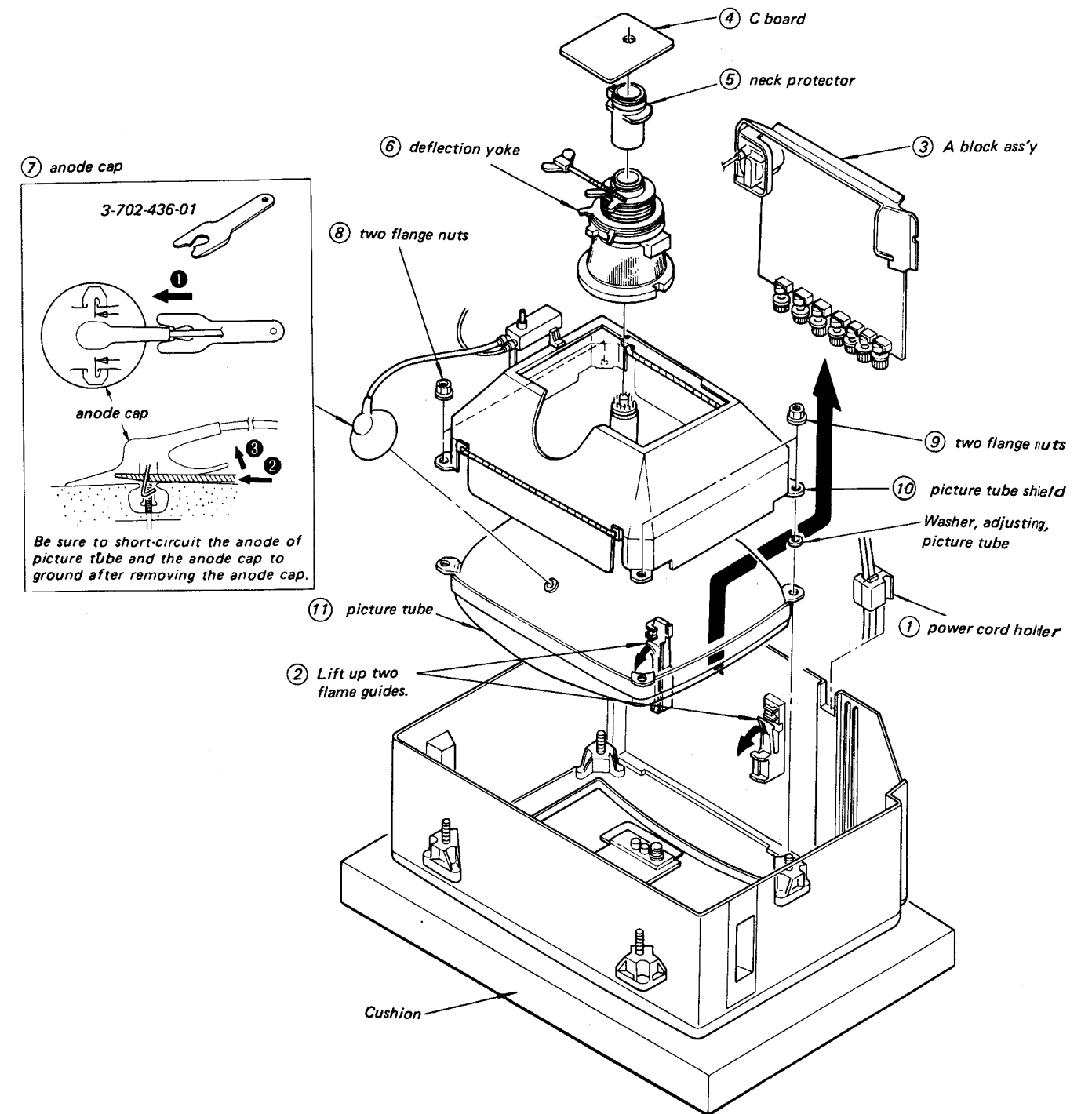
2-1. CHANNEL SELECT BLOCK REMOVAL



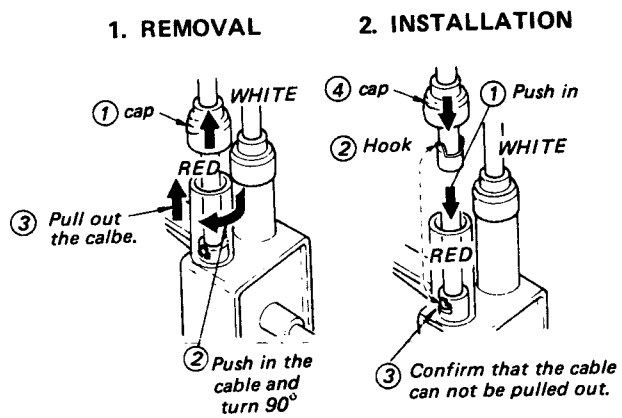
2-2. A BOARD REMOVAL (FOR CHECKING IT UP)



2-3. PICTURE TUBE REMOVAL



2-4. FBT CABLE (HVR BLOCK) REMOVAL AND INSTALLATION



MC-Service

SECTION 3 SETUP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:

PICTURE controlmaximum

BRIGHT controlmaximum
(fully clockwise)

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. White Balance

Note: Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser

3-1. BEAM LANDING

Preparation:

- Feed in the white pattern.
 - Before starting, degauss the entire screen.
1. Loosen deflection yoke screw.
 2. Adjust purity control as shown in Fig. 3-1.
 3. Slide deflection yoke as far forward as it will go.
 4. Position neck protector ass'y as shown in Fig. 3-2.
 5. Disconnect leads **B** and **G** on the C board.
 6. Adjust purity control to center vertical red band as shown in Fig. 3-3.
 7. Slide deflection yoke back for a uniform red screen.
 8. Check green and blue rasters for uniformity by performing the same way as steps 5, 6 and 7.
To get a uniform green screen, connect lead **G** on the C board and disconnect leads **R** and **B**.
To get a uniform blue screen, connect lead **B** on the C board and disconnect leads **R** and **G**.
After these checks, connect the leads **R**, **G** and **B**.
 9. Tighten the deflection yoke screw.
 10. Check if mislanding appears at corners a-d as shown in Fig. 3-4. If mislanding is observed, correct it as shown in Fig. 3-4.
 11. Confirm that beam landing is correct when the receiver is faced in all directions.

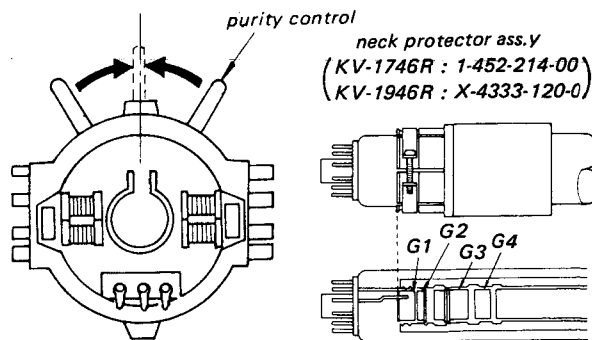


Fig. 3-1.

Fig. 3-2.

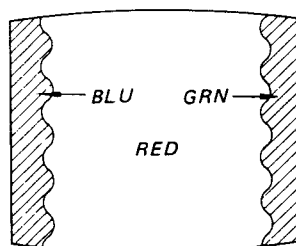


Fig. 3-3.

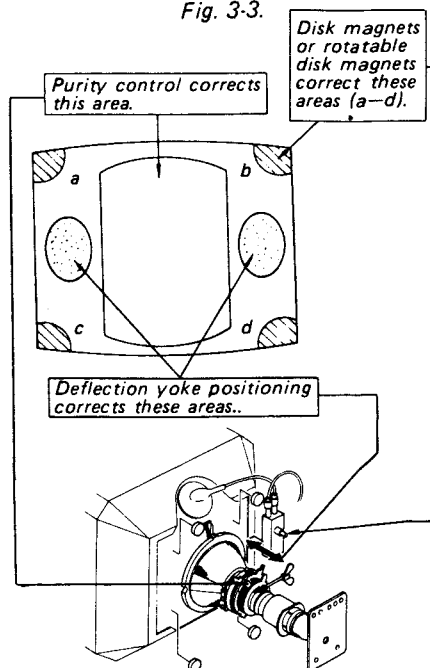
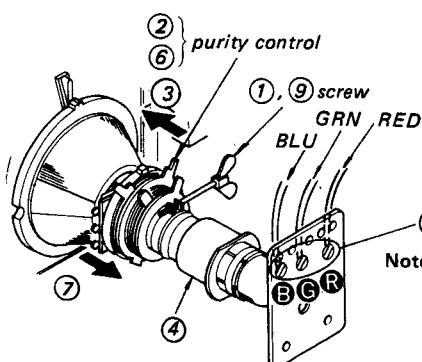


Fig. 3-4.



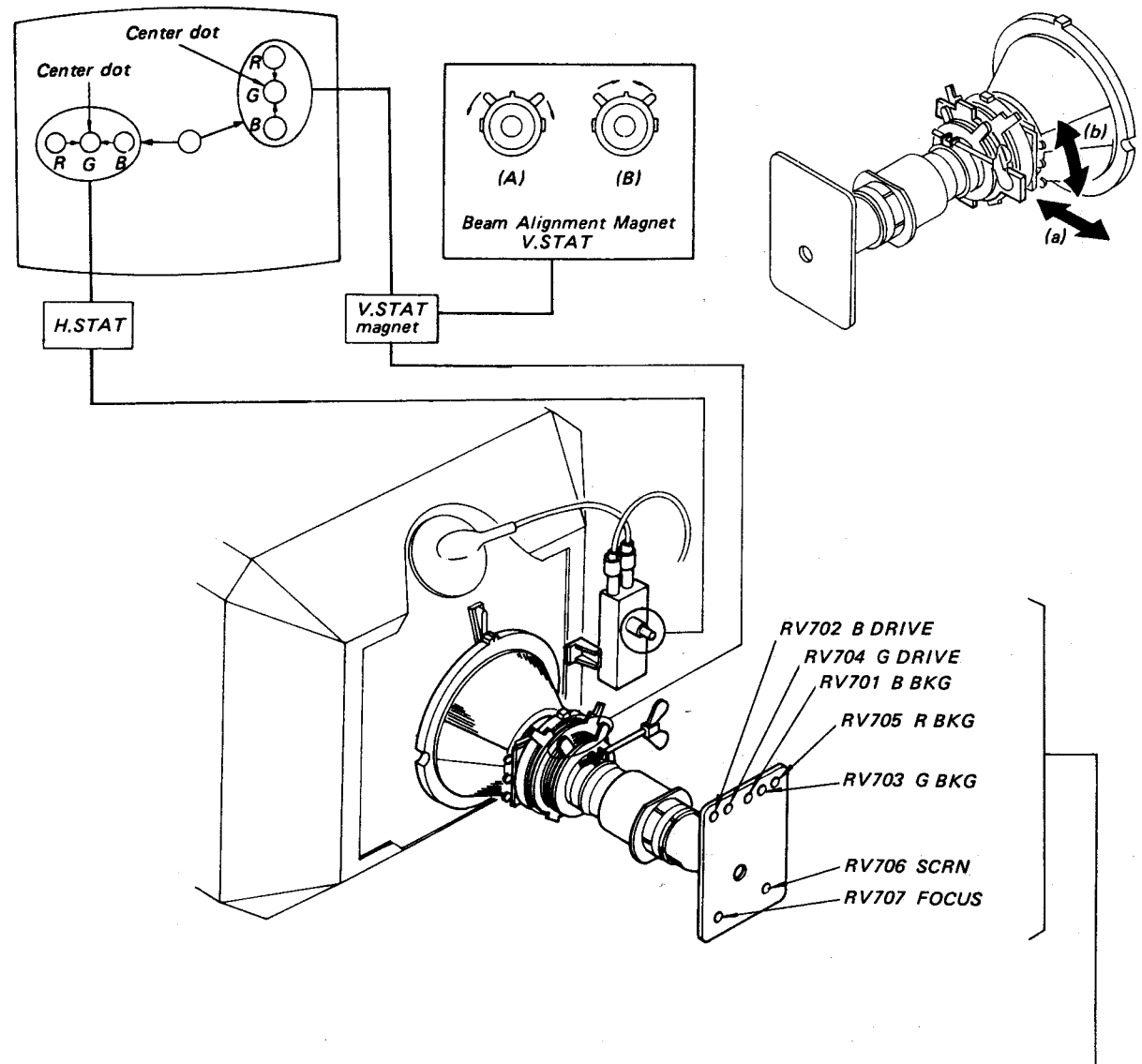
Note: The circled numbers (1-9) show above steps.

3-2. CONVERGENCE

Preparation:

- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHT control to fully counterclockwise.
- Feed in the dot patter.

(1) Horizontal and Vertical Static Convergence



If blue dot does not coincide with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V. static convergence.

In either case, repeat Beam Landing Adjustment.

3-3. WHITE BALANCE

Feed in the cross-hatch pattern.

1. Set the PICTURE control to minimum and turn the BRIGHT control fully counterclockwise.
2. Turn RV702 (B. DRIVE) and RV704 (G. DRIVE) fully clockwise.
3. Set RV701 (B. BKG), RV703 (G. BKG), and RV705 (R. BKG) to mechanical center.

4. Turn RV706 (SCRN) slowly to obtain a faintly visible cross-hatch. Note the color that first becomes visible by turning RV706. Do not turn a BKG control for this color.

5. Adjust the other two BKG controls for best white balance (neutral gray) of the faint crosshatch.

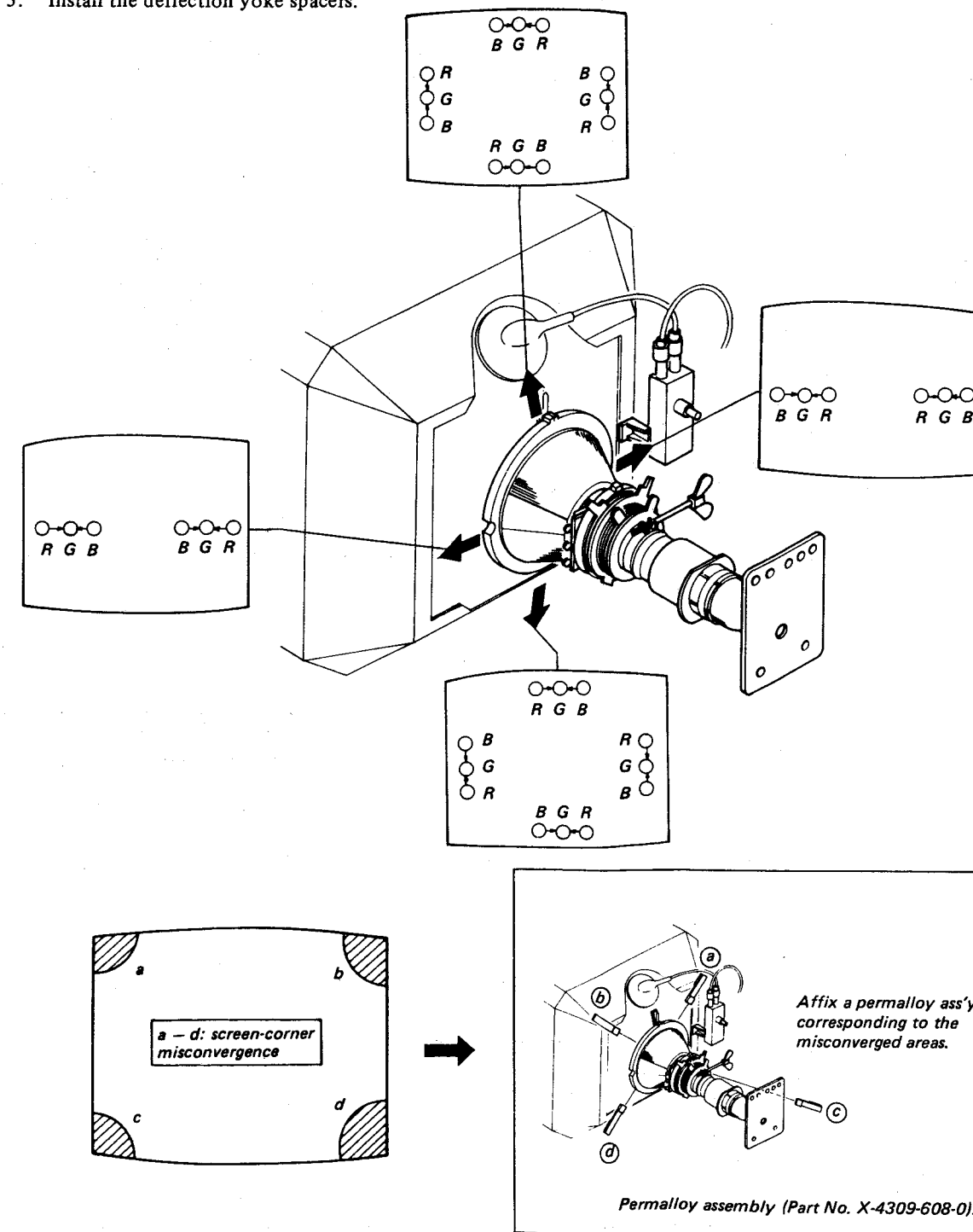
6. Set the PICTURE control to maximum and turn the BRIGHT control fully clockwise. Observe the screen and adjust the DRIVE controls for best white balance.

7. Repeat Steps 1 through 6 several times.

(2) Dynamic Convergence Adjustment

Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
1. Loosen deflection yoke screw.
 2. Remove deflection yoke spacers.
 3. Move the deflection yoke for best convergence as shown below.
 4. Tighten the deflection yoke screw.
 5. Install the deflection yoke spacers.

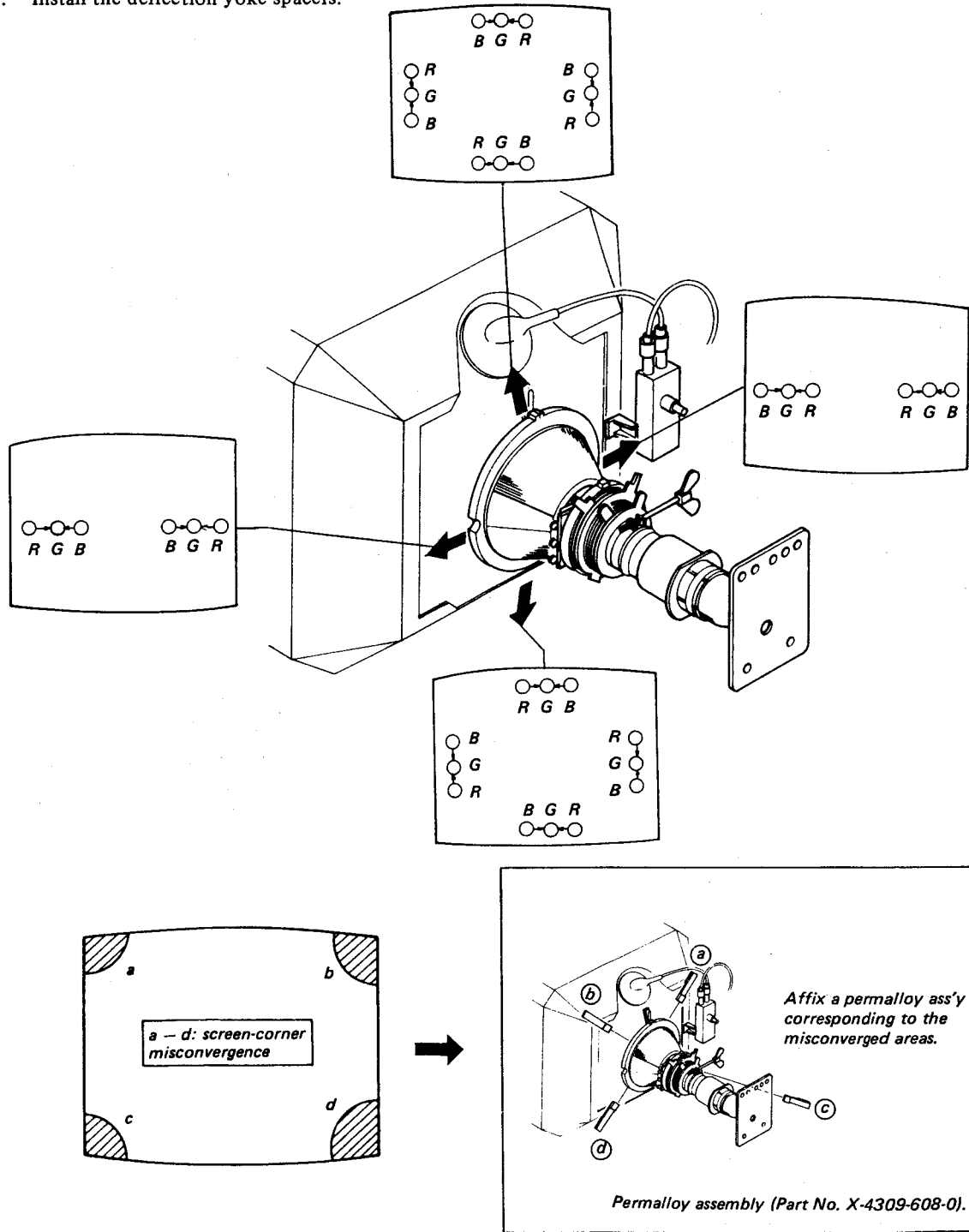


SECTION 4 CIRCUIT ADJUSTMENTS

(2) Dynamic Convergence Adjustment

Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
1. Loosen deflection yoke screw.
 2. Remove deflection yoke spacers.
 3. Move the deflection yoke for best convergence as shown below.
 4. Tighten the deflection yoke screw.
 5. Install the deflection yoke spacers.



Note: (1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Digital multimeter
3. Color-bar/pattern generator
4. Variable auto-transformer
5. Isolation transformer
6. Regulated-dc power supply

(2) INPUT SIGNAL

When making these adjustments, Supply a color-bar or an off-air signal.

(3) CONTROL SETTINGS

Controls and switches should be set as follows when, making checks and adjustments unless otherwise noted.

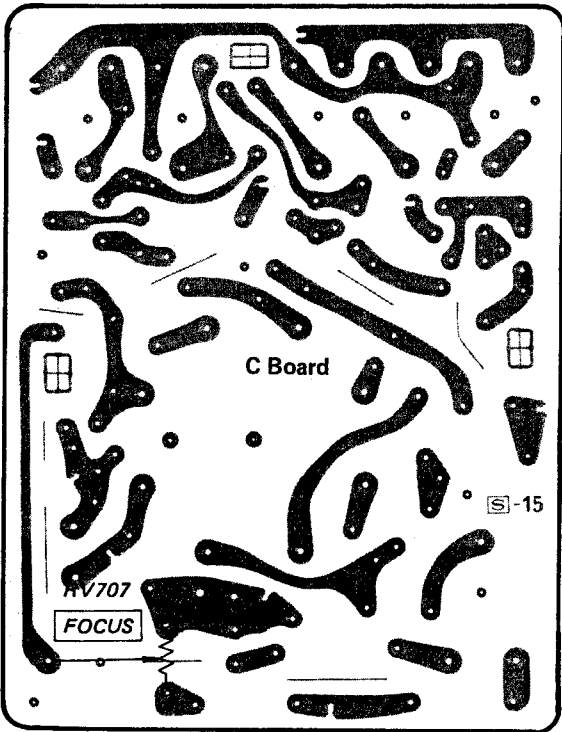
PICTURE control
BRIGHTNESS control } Set for best picture
COLOR control
V. HOLD control Set for stable picture

- (4) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

4-1. C BOARD ADJUSTMENT

FOCUS Adjust RV707 for best focus.

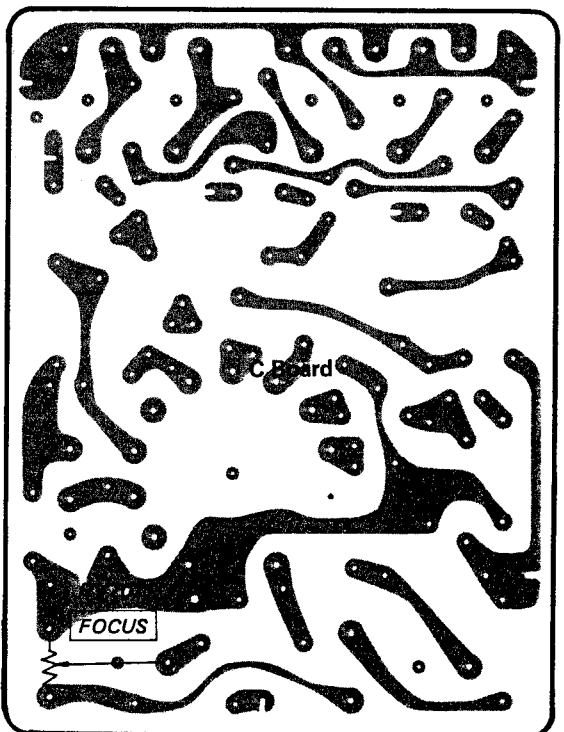
KV-1746R



(5) CIRCUIT ADJUSTMENTS

Adjustment	Circuit Board	Page
FOCUS	C	15
R563 adjustment	A	16, 17, 18
COLOR SYNC		
H. FREQ		
PIN AMP		
SUB CONTRAST		
ACC		
SIF		
SUB BRIGHT	A	16, 17, 18
RF AGC		
CHECK AFTER IC601 REPLACED		

KV-1946R



4-2. A BOARD ADJUSTMENTS

☒ **R563 ADJUSTMENT (KV-1746R)**

When replacing the following components, make this adjustment.

*D502, C505, C520, C554, IC501, R508, R515,
R528, R529, R563, R554*

1. Supply the $18.5V \pm 0.05V$ dc to TP85 with the regulated-dc power supply and confirm that the HV hold down circuit operates. (When the HV hold down circuit operates, raster disappears.)

Note: As soon as the HV hold down circuit operates, turn the POWER switch OFF.

2. Supply the $17.9V \pm 0.05V$ dc to TP85 with the regulated-dc power supply and confirm that the set is normally operated on any of all channels.

(The HV hold down circuit does not operated.)

3. When the set is normally operated with 120V ac, confirm that the voltage at TP85 is 15.5V dc to 17.5V dc.

4. If steps 1 to 3 are not satisfied, select the resistance value of R563 and repeat above steps.

■ R563 ADJUSTMENT (KV-1946R)

When replacing the following components, make this adjustment.

D502, C505, IC501, R508, R528, R529, R563

1. Supply the $19.5\text{V} \pm 0.1\text{V}$ dc to TP85 with the regulated-dc power supply and confirm that the HV hold down circuit operates. (When the HV hold down circuit operates, raster disappears.)

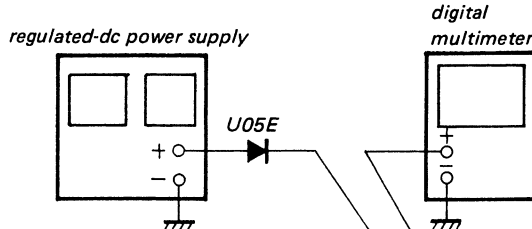
Note: As soon as the HV hold down circuit operates, turn the POWER switch OFF.

2. Supply the $18.3V \pm 0.1V$ dc to TP85 with the regulated-dc power supply and confirm that the set is normally operated on any of all channels.

(The HV hold down circuit does not operated.)

3. When the set is normally operated with 120V ac, confirm that the voltage at TP85 is 15.7V dc to 18.0V dc.

4. If steps 1 to 3 are not satisfied, select the resistance value of R563 and repeat above steps.



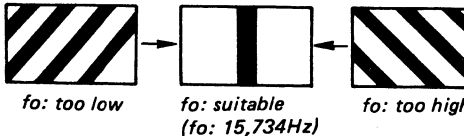
COLOR SYNC

1. Feed in a color-bar signal from color-bar/pattern generator.
2. Set the switch and controls as shown below.

AUTO switch	ON	
HUE control		} mechanical center
COLOR control		
PICTURE control	maximum	
3. Connect a resistor ($27k\Omega$) between the pins 18 and 1 of IC301.
4. Connect a resistor ($10k\Omega$) between D301, cathode and pin 1 of IC301.
5. Short-circuit between the pins 16 and 17 of IC301 with a jumper.
6. Adjust CV301 to obtain the stable color picture.
7. Disconnect the $27k\Omega$ and $10k\Omega$ resistors and the jumper.

H. FREQ

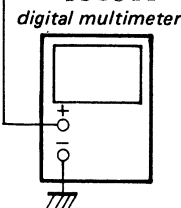
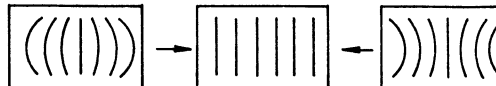
1. Tune in an off-air signal.
2. Adjust PICTURE, BRIGHT and V. HOLD control for the suitable and stable picture.
3. Short-circuit between the pins 24 and 16 of IC501 with a jumper during this adjustment.
4. Adjust RV501 for the stable picture as shown.



- 5. Confirm that the stable picture is obtained on other channels.**

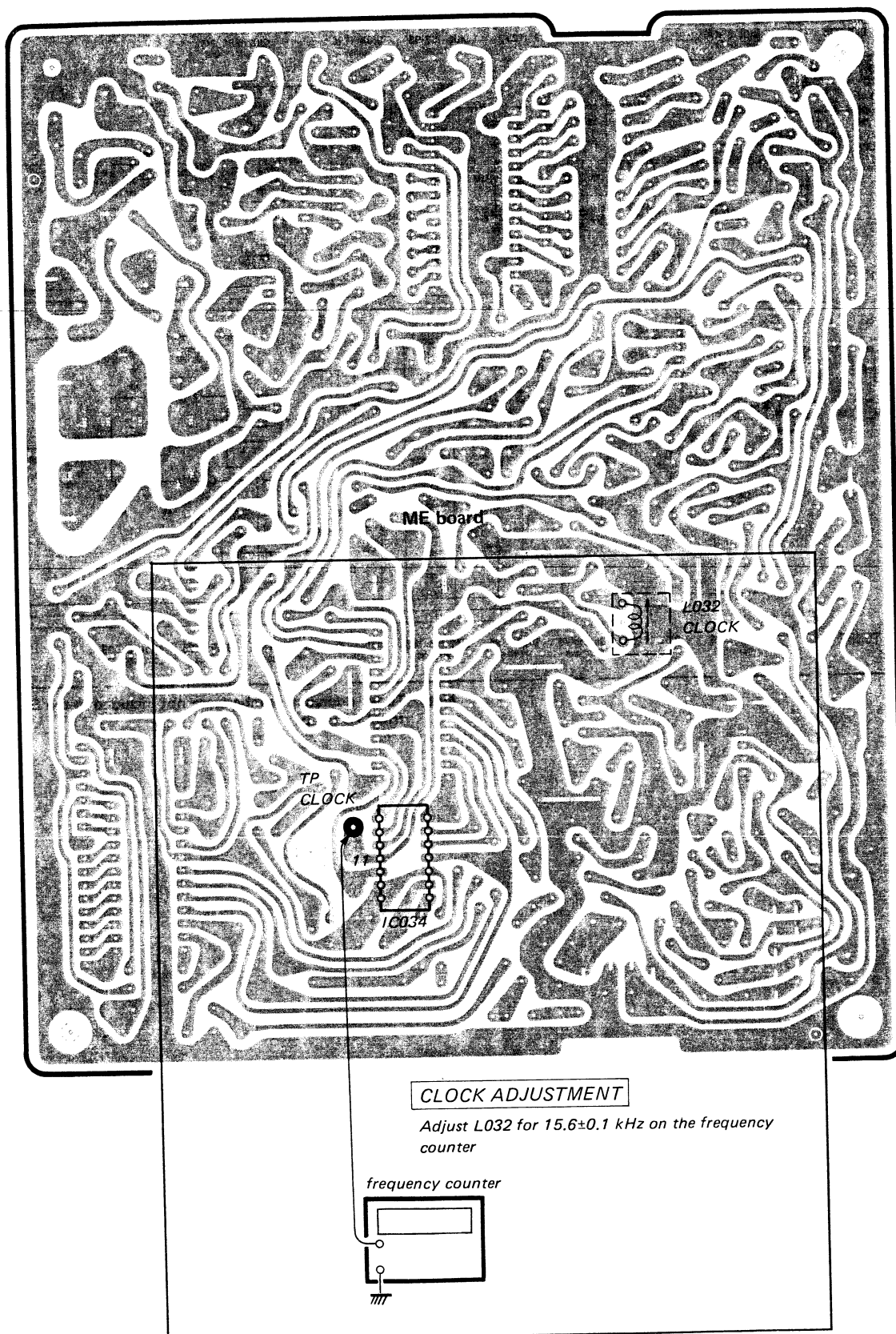
PIN AMP

Adjust RV504 to make vertical lines straight as shown below.



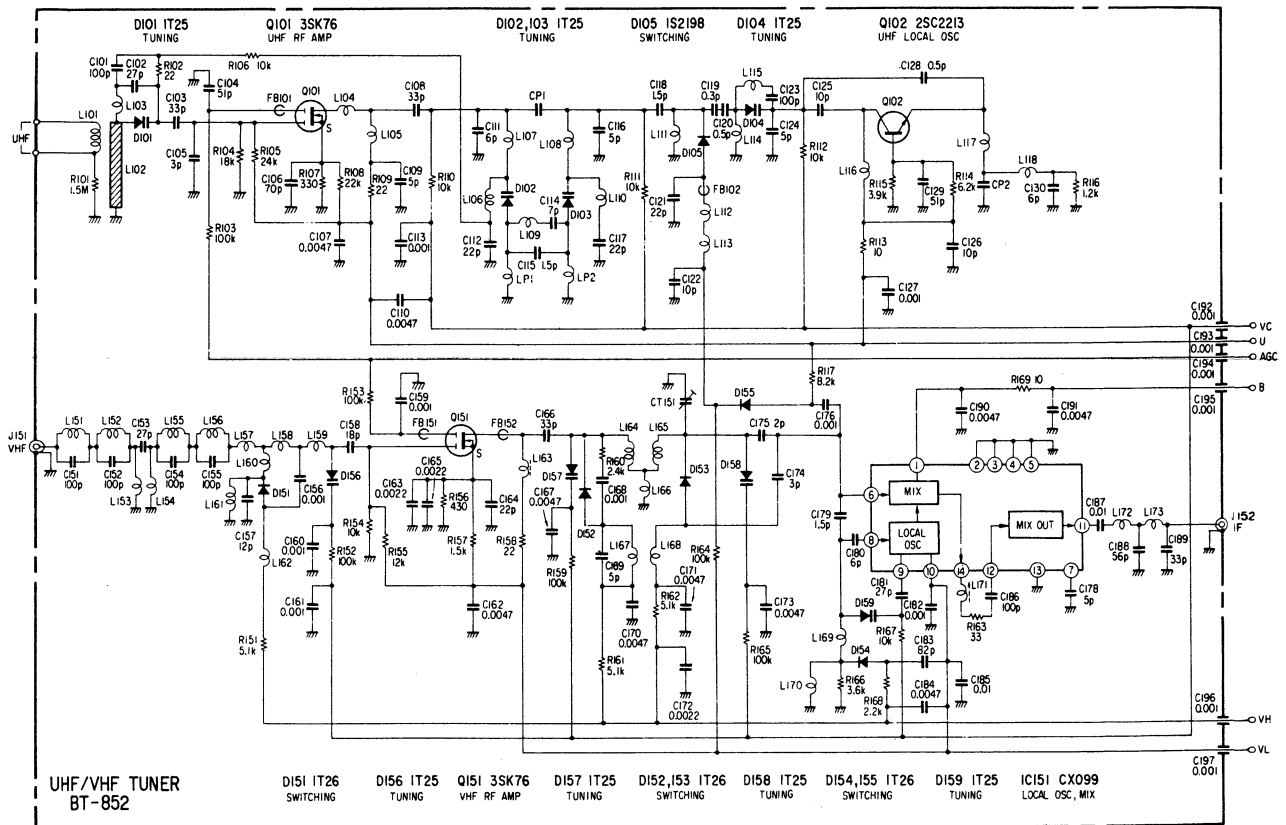


4-3. ME BOARD ADJUSTMENT



SECTION 5 DIAGRAMS

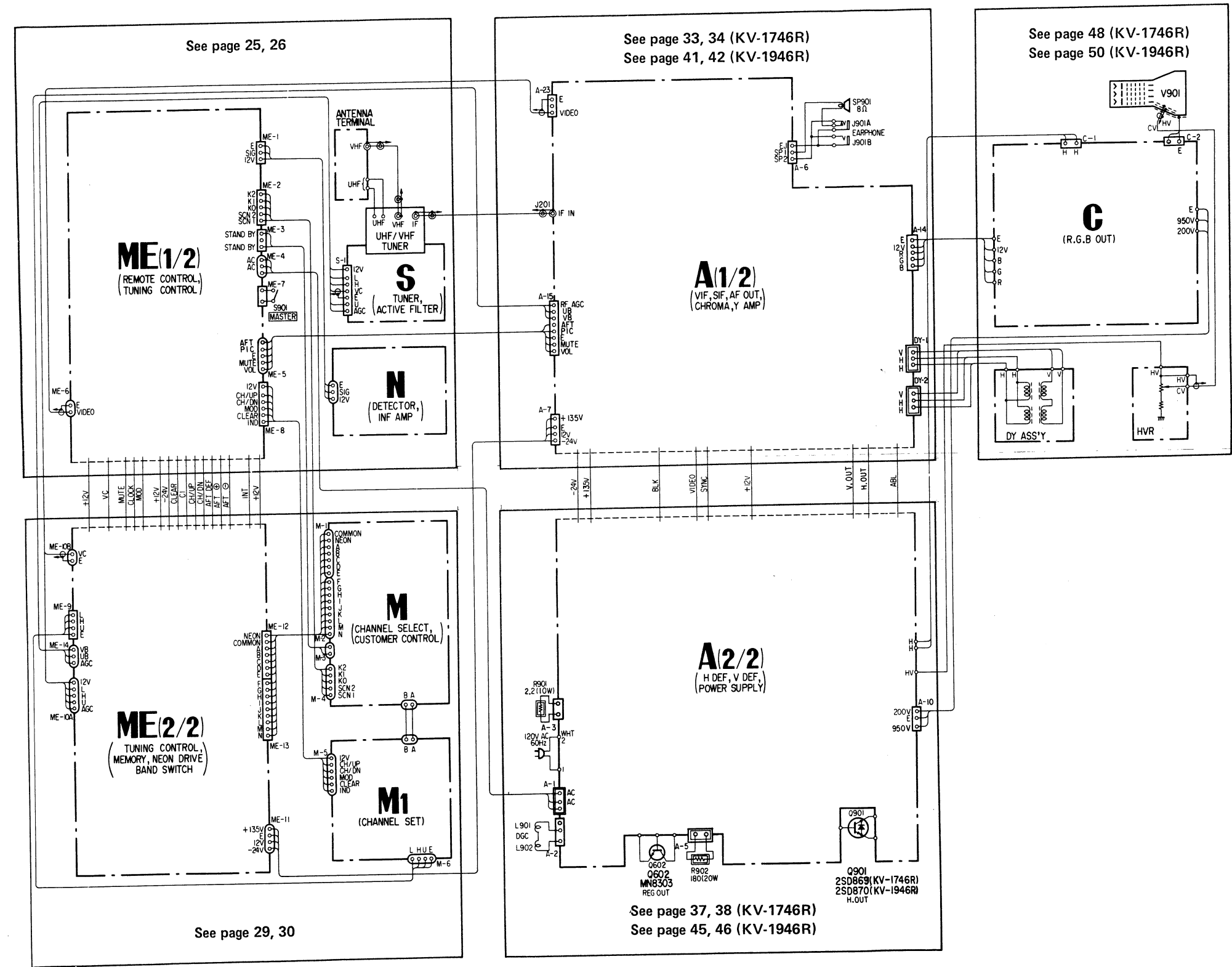
5-1. UHF/VHF TUNER SCHEMATIC DIAGRAM —BT-852—




Note: Tuner reference numbers are not included in the Electrical Parts List.







MC-Service

5-2. FRAME SCHEMATIC DIAGRAM





5-3. MOUNTING AND SCHEMATIC DIAGRAMS



Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.




- All mounting diagrams are viewed from conductor side.
- All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics. $\text{pF} : \mu\text{F}$
- All resistors are in ohms, $\frac{1}{2}\text{W}$ unless otherwise noted. $\text{k}\Omega : 1000\Omega$, $\text{M}\Omega : 1000\text{k}\Omega$
-  : nonflammable resistor.
-  : internal component.
-  : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by  in this manual have been carefully factory selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by  , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by  and repeat the adjustment until the specified value is achieved. (Refer to R563 adjustment on page 16). When replacing the part in below table, be sure to perform the related adjustment.

KV-1746R

Part replaced ()	Adjustment ()
C505, C520, C554, D502, IC501, R508, R515, R528, R529, R554, R563	R563 adjustment

KV-1946R

Part replaced ()	Adjustment ()
C505, D502, IC501, R508, R528, R529, R563	R563 adjustment

- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
-  : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- Voltages on ME and S board are taken with set selected to CH-A (VHF HIGH) position.
-  : B+ bus.
-  : B- bus.

ME(1/2)

[REMOTE CONTROL
TUNING CONTROL]

S

[TUNER
ACTIVE FILTER]

N

[DETECTOR
INF AMP]

ME(1/2)

S

N

A

B

C

D

E

F

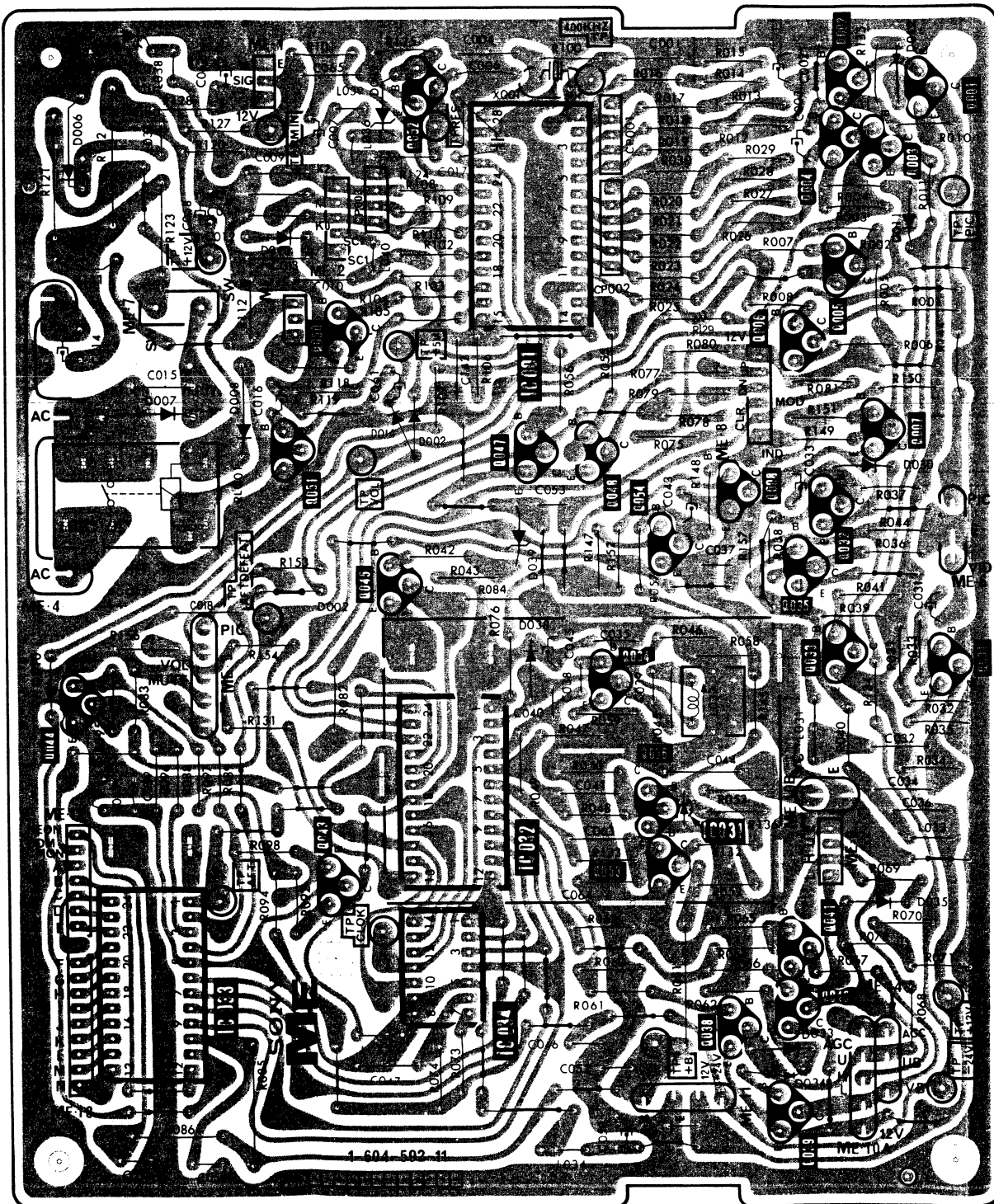
G

H

— ME (1/2) Board —

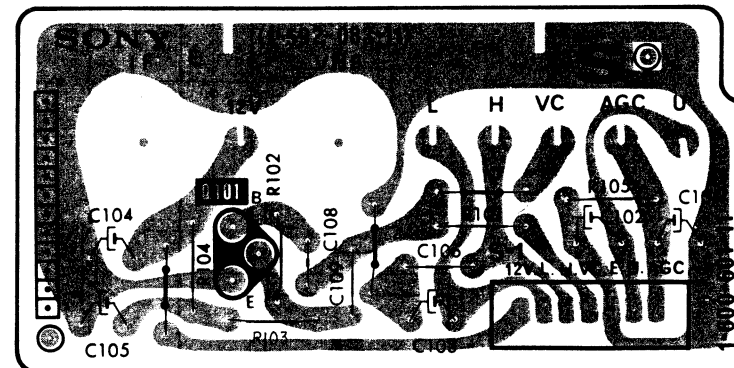


Q, IC	D
002	005
052 001	012
004	009
003	006
1C001	011
005	013
050 006	
007	014
047 008	002
008	030
032	
054	039
045	
033	038
031	
034	010 L032
044	
1C032	
1C031	
036	
053	035
043	
041	
1C034	
033	
040	
038	033
	034
039	
Q, IC	D

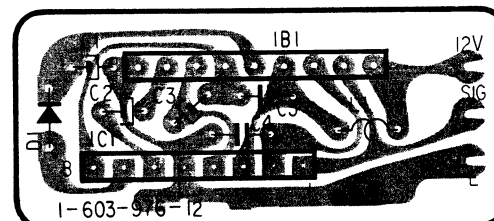


—23—

— S Board —



— N Board —



MC-Service

—24—

A

B

C

D

E

F

G

H

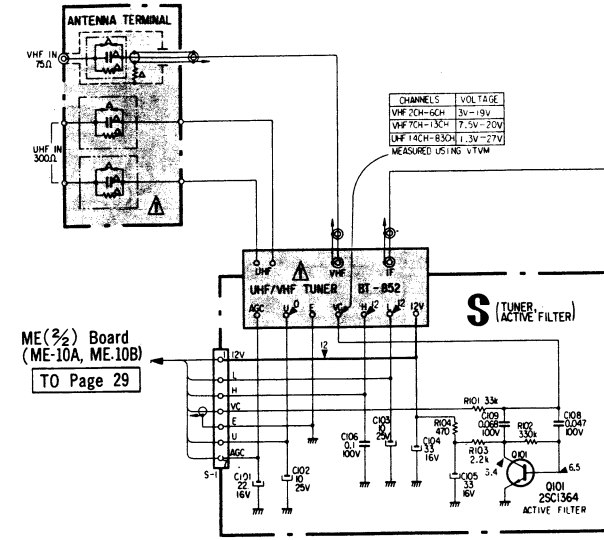
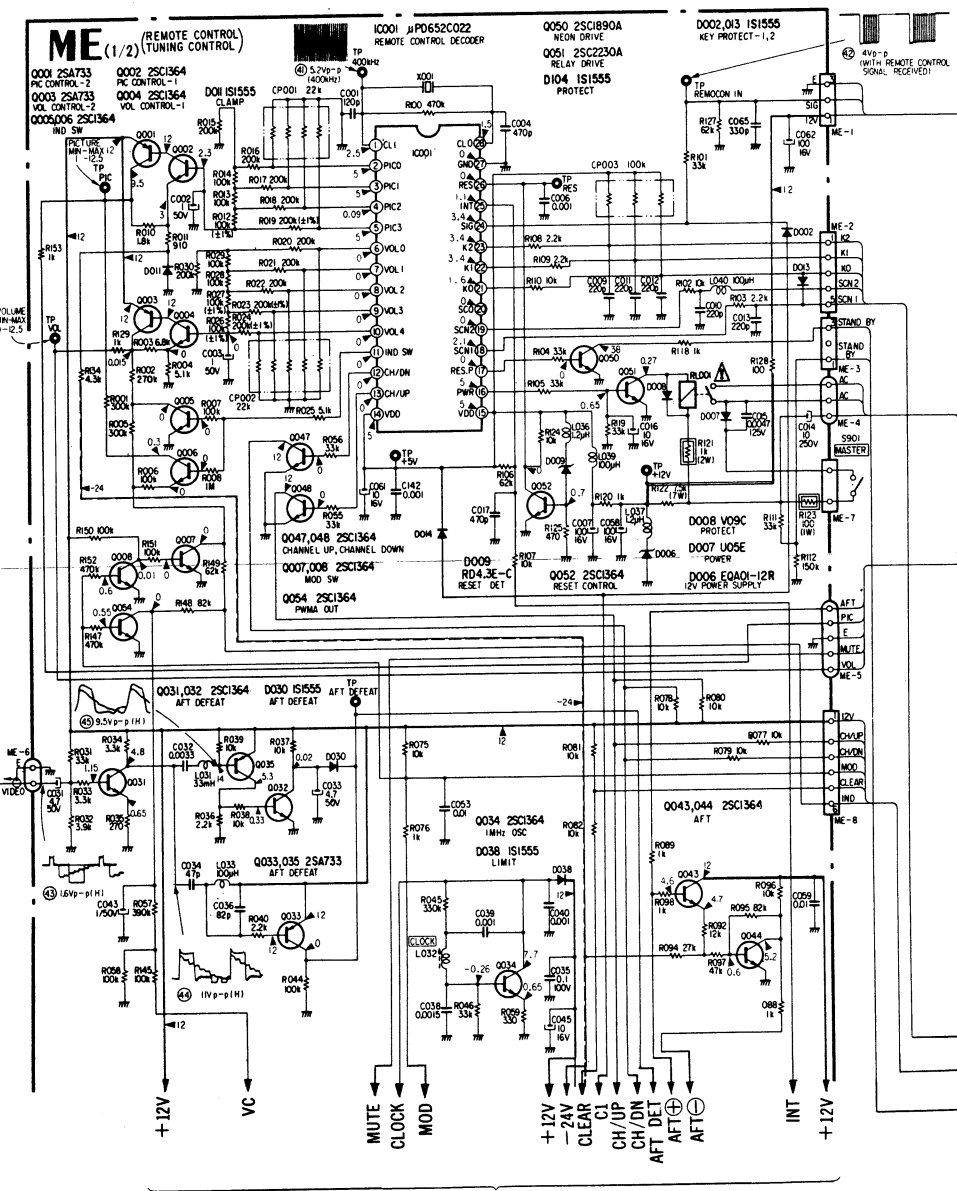
1

2

3

4

5




A(1/2) Board
J201
TO Page 33 KV-1746R
TO Page 41 KV-1946R

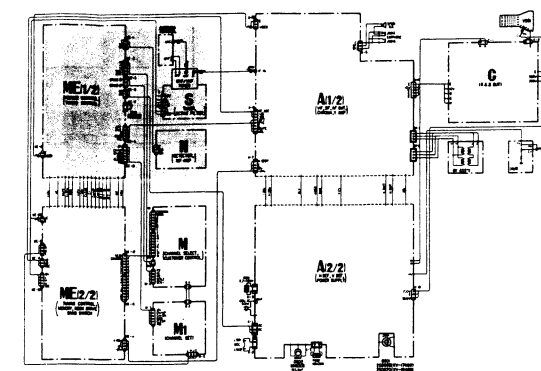
A(1/2) Board
(A-15)
TO Page 33 KV-1746R
TO Page 41 KV-1946R

A(1/2) Board
(A-23)
TO Page 33 KV-1746R
TO Page 41 KV-1946R

ME(3/2) Board
TO Page 29, 30

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

• Voltages on ME and S boards are taken with set selected to CH-A (VHF HIGH) position.



ME^(2/2) [TUNING CONTROL
MEMORY, NEON DRIVE
BAND SWITCH]

M [CHANNEL SELECT
CUSTOMER CONTROL]

M1 [CHANNEL SET]

ME^(2/2)

M

M1

A

B

C

D

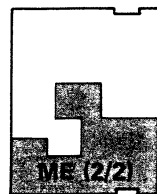
E

F

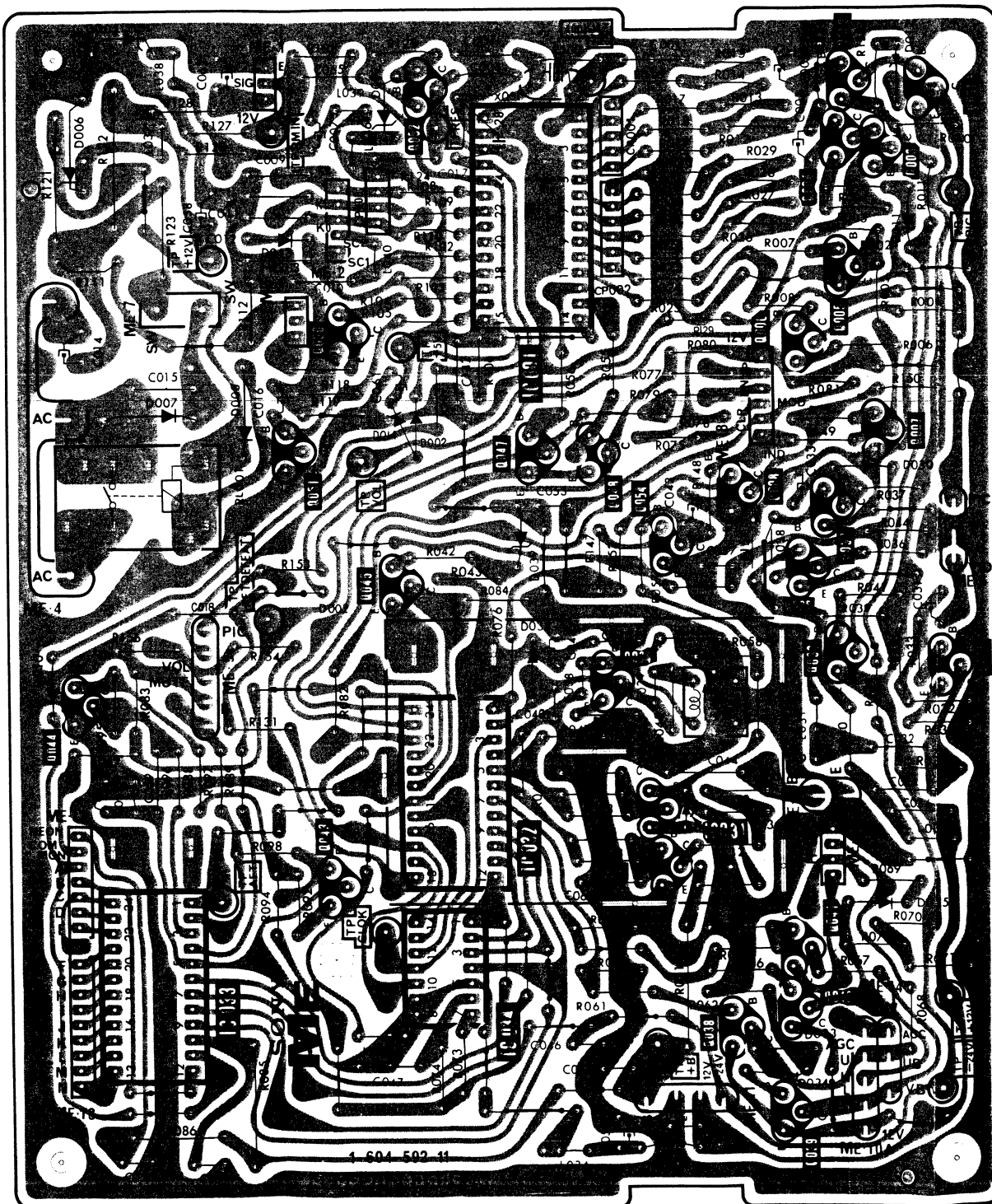
G

H

— ME (2/2) Board —

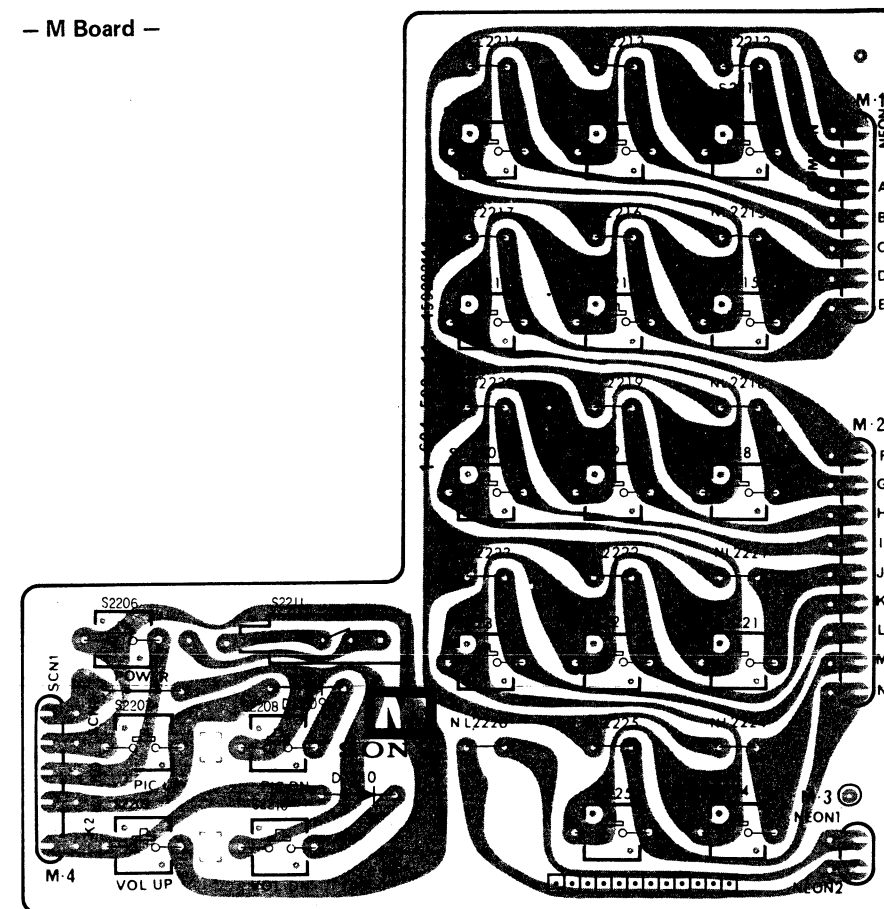


Q, IC	D
005	012
002	009
052 001	006
004	011
003	013
006	005
1C001	007 014
005	008 002
050 006	030
007	039
051	038
047	031
048	034
008	035
032	033
054	036
045	037
044	038
033	039
031	040
034	041
010 L032	042
1C032	043
1C031	044
036	045
053	046
043	047
041	048
1C034	049
0033	050
040	051
038	052
033	053
034	054
039	055
Q, IC	D

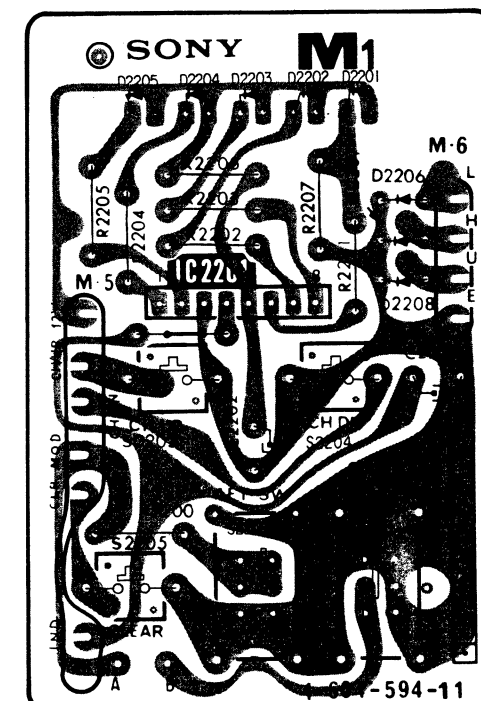


—27—

— M Board —



— M1 Board —



MC-Service

—28—

TUNING CONTROL
MEMORY, NEON DRIVE
BAND SWITCH

ME(2/2)

CHANNEL SELECT
CUSTOMER CONTROL

M

[CHANNEL SET]

M1

ME(2/2)

M

M1

A

B

C

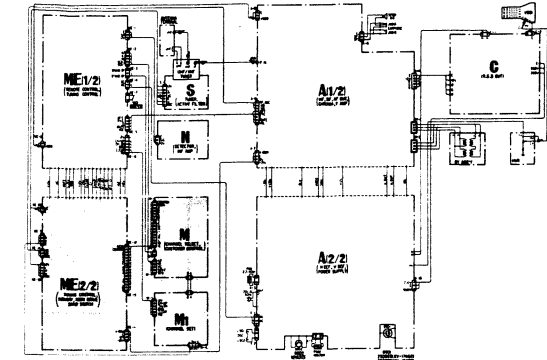
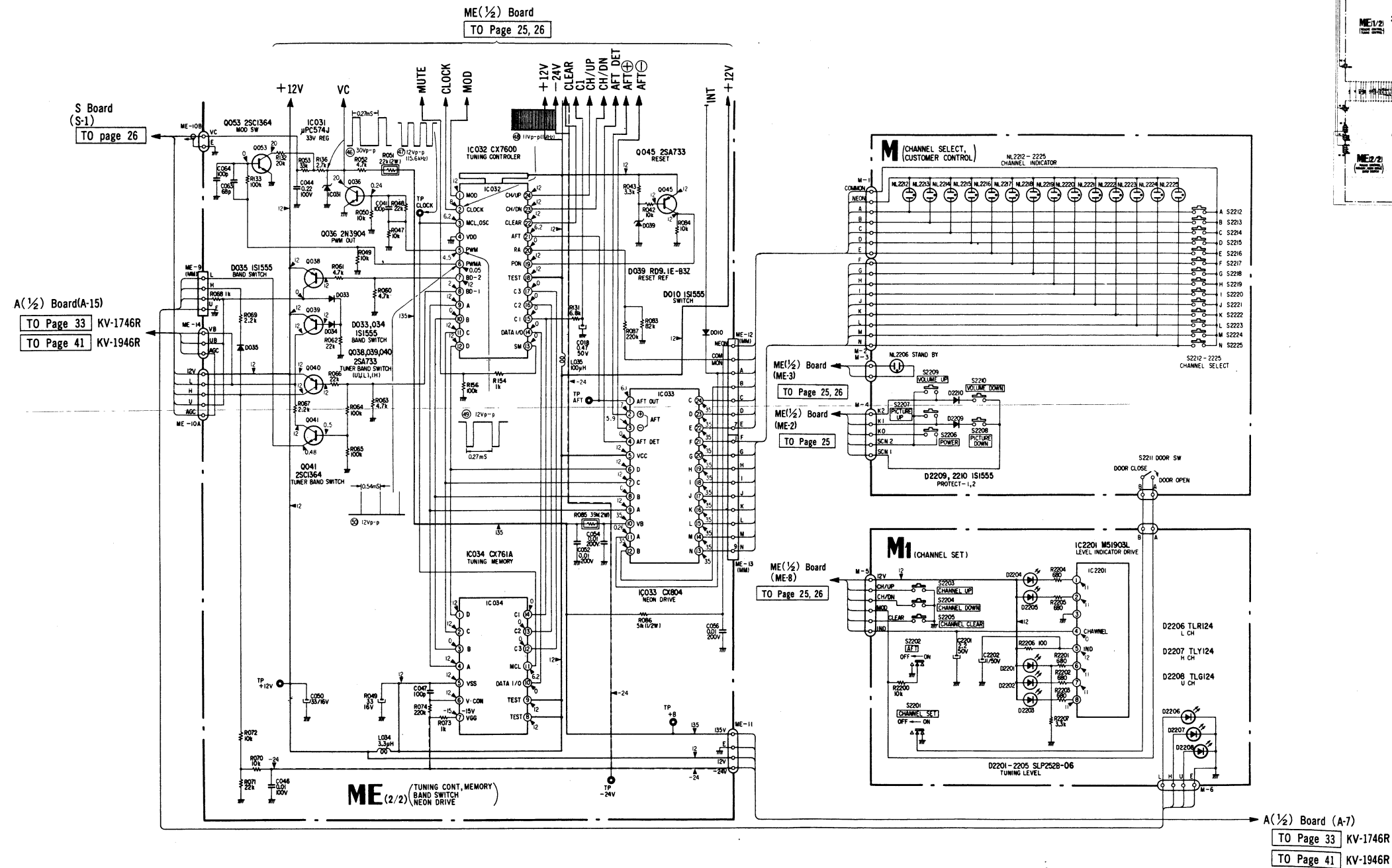
D

E

F

G

H



- Voltages on ME and S boards are taken with set selected to CH-A (VHF HIGH) position.

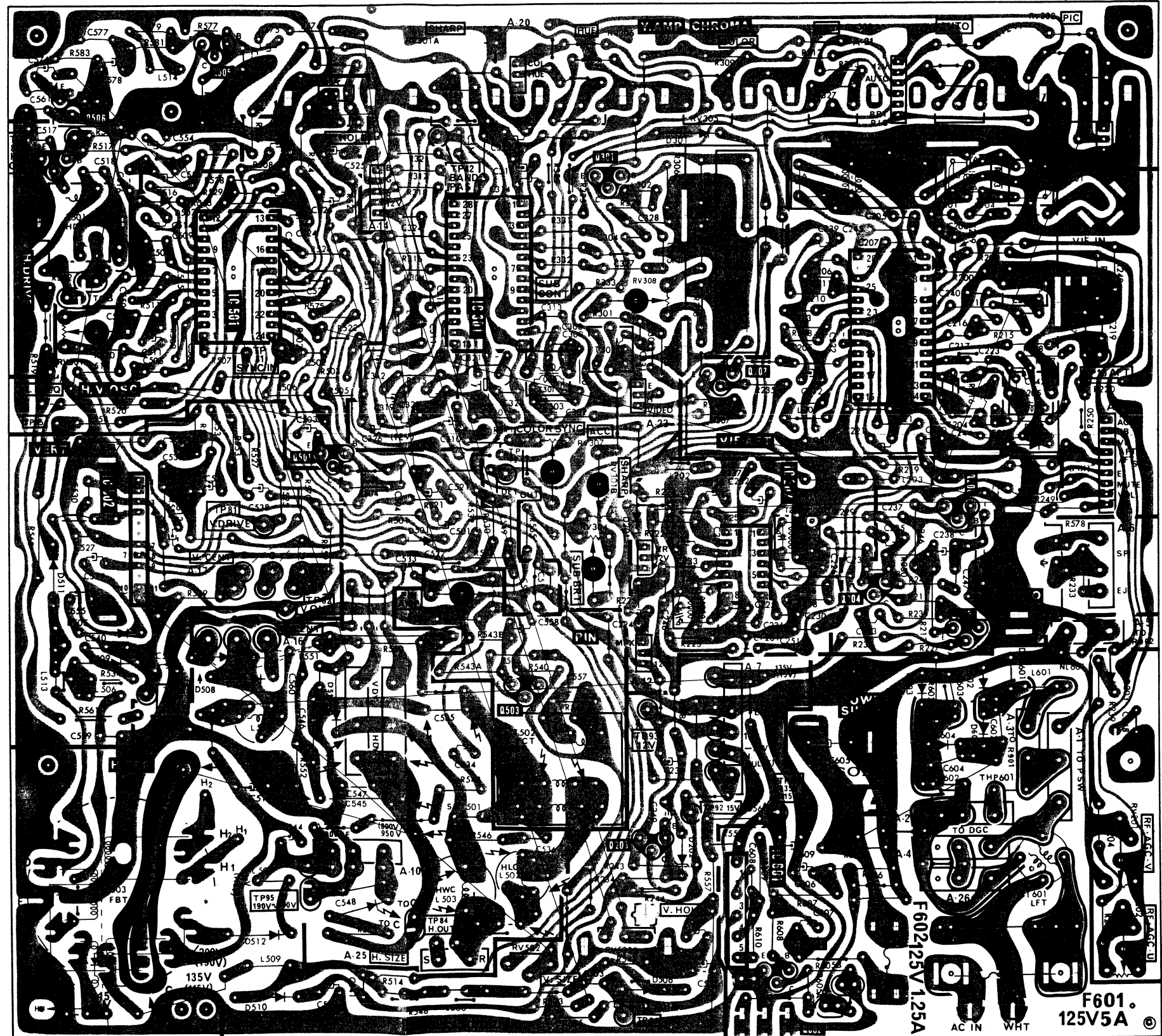
MC-Service

$$A\left(\frac{1}{2}\right)$$

H

5

Q-IC	D	ADJ
505		
506		
	301	
502 301		
	502	
IC301 IC501		RV308
IC201		RV501
202		
		CV301
		RV307
206		
IC502	501	T207
IC202	511	RV304
204		T206 RV504
205	505 203 508 602 509 603 507	
503	514 601 604	
203	204 202	
IC601	513 512	RV201 L503
601		RV202
602	506 510 515	RV502
Q-IC	D	ADJ



[VIF, SIF, AF OUT
CHROMA, Y. AMP]

A(1/2)

A(1/2)

KV-1746R

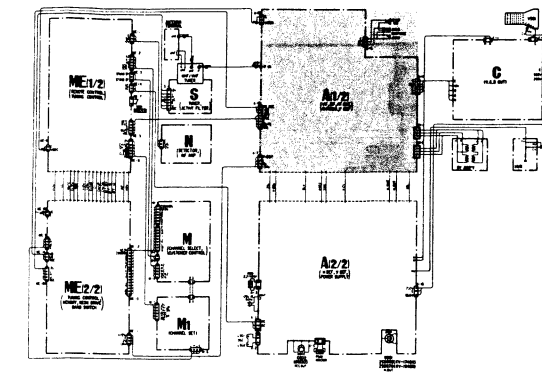
ME(1/2) Board
(ME-6)
TO Page 25

ME(2/2) Board
(ME-11)
TO Page 30

VHF/UHF TUNER
(IF)
TO Page 26

ME(1/2) Board
(ME-5)
TO Page 25, 26

ME(2/2) Board
(ME-14)
TO Page 29



C Board(E, 12V, R, G, B)
TO Page 48

DY Ass'y
TO Page 48

A(2/2) Board
TO Page 37, 38

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

MC-Service

$$A\left(\frac{2}{2}\right)$$

MC-Service

[H DEF, V DEF
POWER SUPPLY]

A(2/2)

A(2/2)

KV-1746R

A

B

C

D

E

F

G

H

1

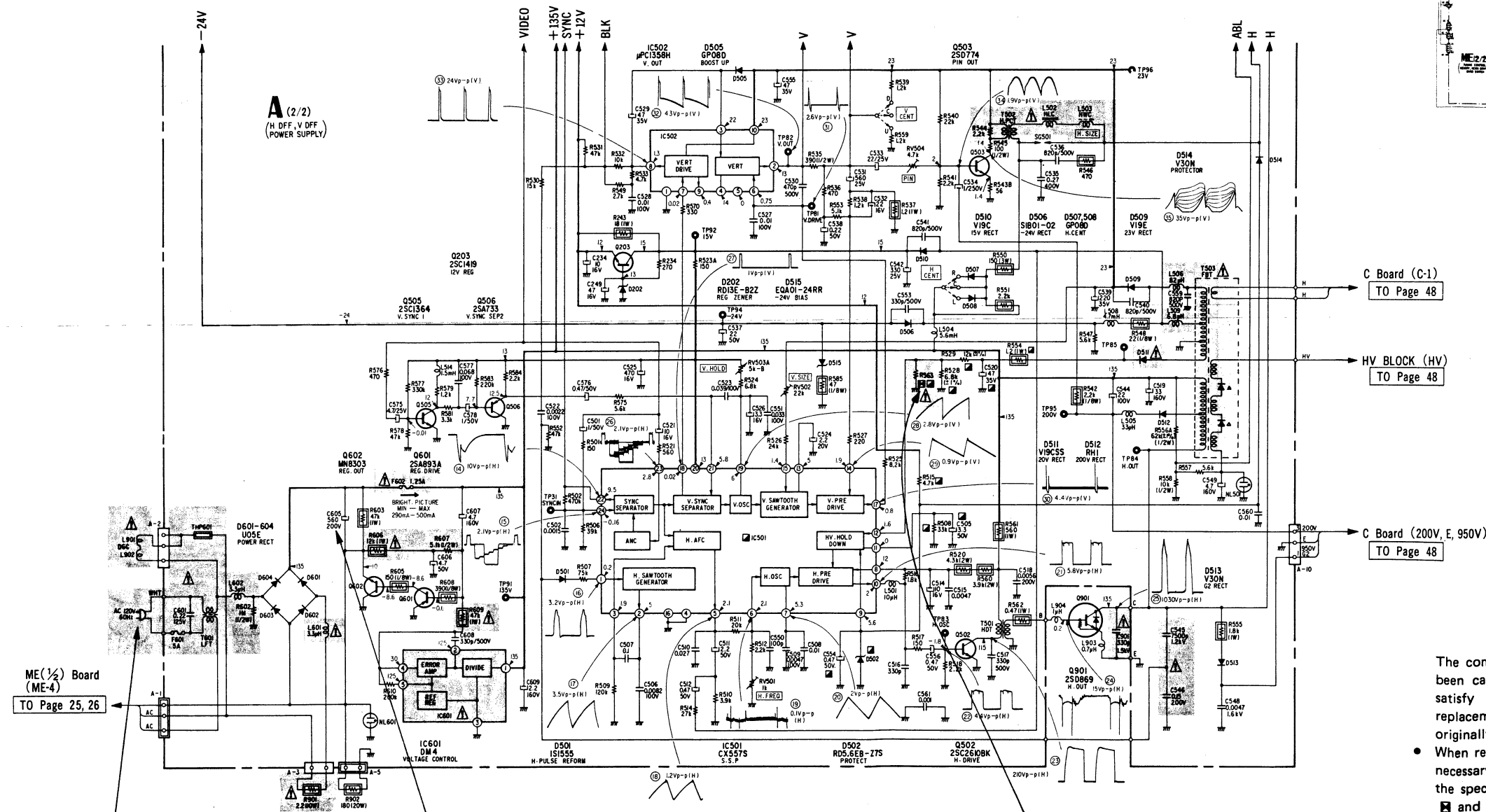
2

3

4

5

A(1/2) Board
TO Page 33, 34



C Board (C-1)
TO Page 48

HV BLOCK (HV)
TO Page 48


C Board (200V, E, 950V)
TO Page 48


ME(1/2) Board
(ME-4)
TO Page 25, 26



CAUTION:
This set is equipped with a polarized AC power cord plug (one blade of the plug is wider than the other), be sure to use it having the specified part number and connect it as shown in this diagram.



CAUTION:
When taking a broken fuse (F602) off, discharge across C605 to avoid shock hazard.

See pages 16, 17.

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by  and repeat the adjustment until the specified value is achieved. (Refer to R563 adjustment on page 16, 17). When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment ()
C505, C520, C554, D502, IC501, R508, R515, R528, R529, R554, R563	R563 adjustment

$$A(1/2)$$

—40—

[VIF, SIF, AF OUT]
[CHROMA, Y. AMP]

A(1/2)

A(1/2)

KV-1946R

ME(1/2) Board
(ME-6)
TO Page 25

ME(3/2) Board
(ME-11)
TO Page 30

VHF/UHF TUNER
(IF)
TO Page 26


ME(1/2) Board
(ME-5)
TO Page 25, 26

ME(3/2) Board
(ME-14)
TO Page 29

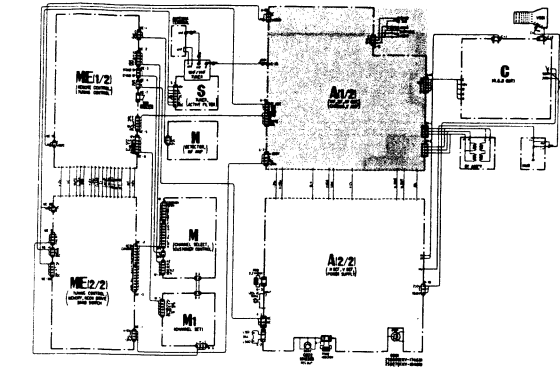
C Board(E, 12V, R, G, B)
TO Page 50

DY Ass'y
TO Page 50

A(3/2) Board
TO Page 45, 46

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

MC-Service

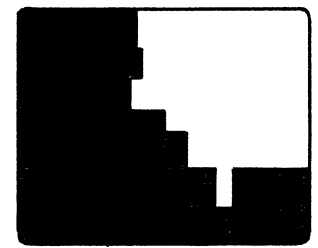


A(2/2)

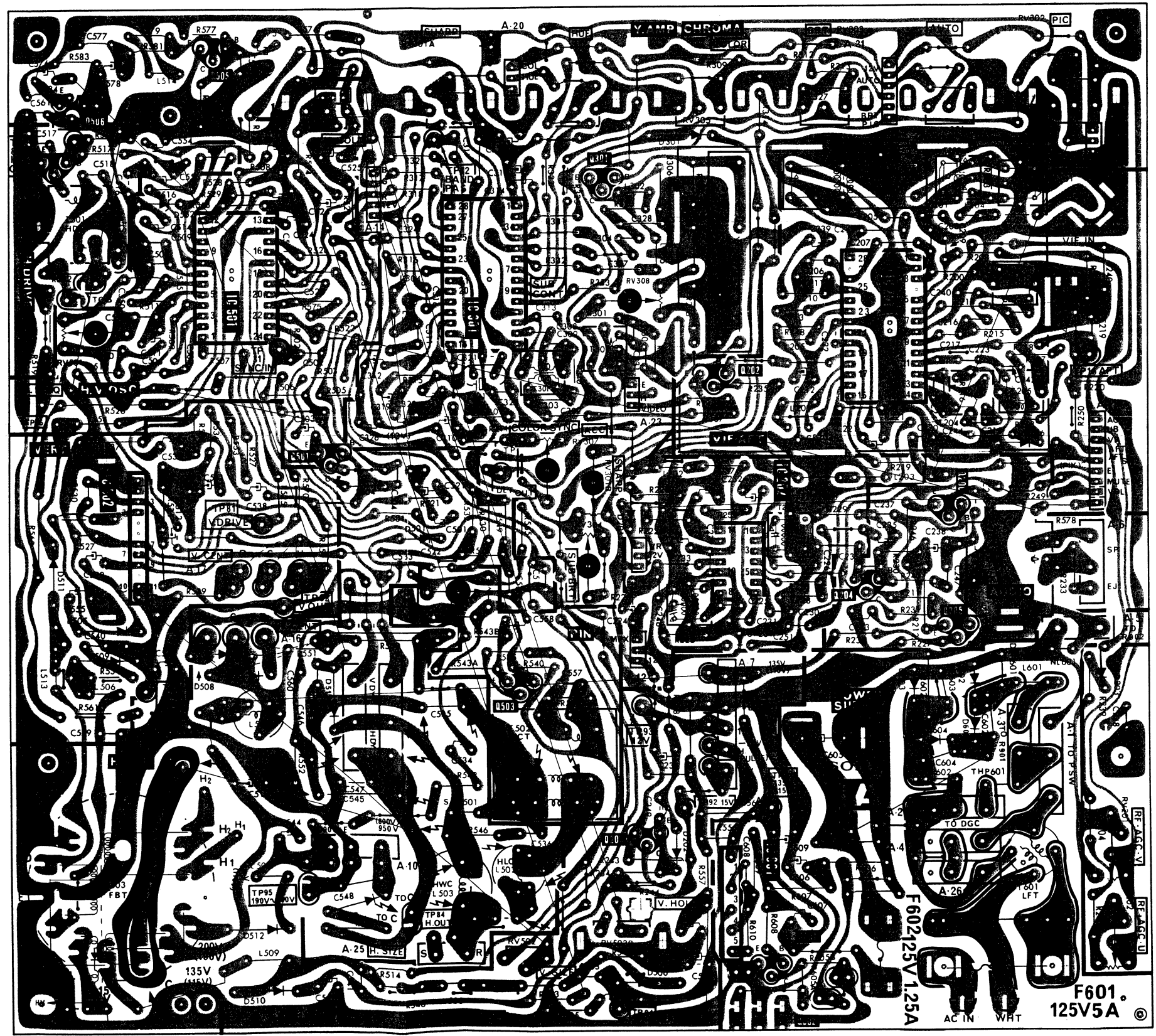
A(2/2)

H DEF, V DEF
POWER SUPPLY

- A (2/2) Board -



Q-IC	D	ADJ
505		
506	301	
502		
301	502	
IC301		RV308
IC501		RV501
IC201		
202		CV301
		RV307
206		
IC502	501	T207
IC202	511	RV304
204		T206
		RV504
205		
505		
203		
508		
602		
509		
603		
507		
503		
514		
601		
604		
203	204	
	202	
IC601		RV201
	513	L503
	512	
601		RV202
602		RV502
	506	
	510	
	515	
Q-IC	D	ADJ



[H DEF, V DEF
POWER SUPPLY]

A(2/2)

A(2/2)

KV-1946R

A

B

C

D

E

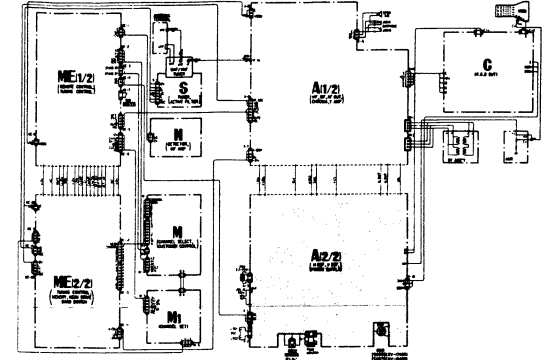
F

G

H

A(1/2) Board
TO Page 41, 42

A(2/2)
(H DEF, V DEF
POWER SUPPLY)



C Board (C-1)
TO Page 50

HV BLOCK (HV)
TO Page 50

C Board (200V, E, 950V)
TO Page 50

ME(1/2) Board
(ME-4)
TO Page 25, 26

See page 16, 17.

CAUTION:

This set is equipped with a polarized AC power cord plug (one blade of the plug is wider than the other), be sure to use it having the specified part number and connect it as shown in this diagram.

CAUTION:

When taking a broken fuse (F602) off, discharge across C605 to avoid shock hazard.

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

- The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R563 adjustment on page 16, 17). When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment ()
D502, C505, IC501 R508, R528, R529 R563	R563 adjustment

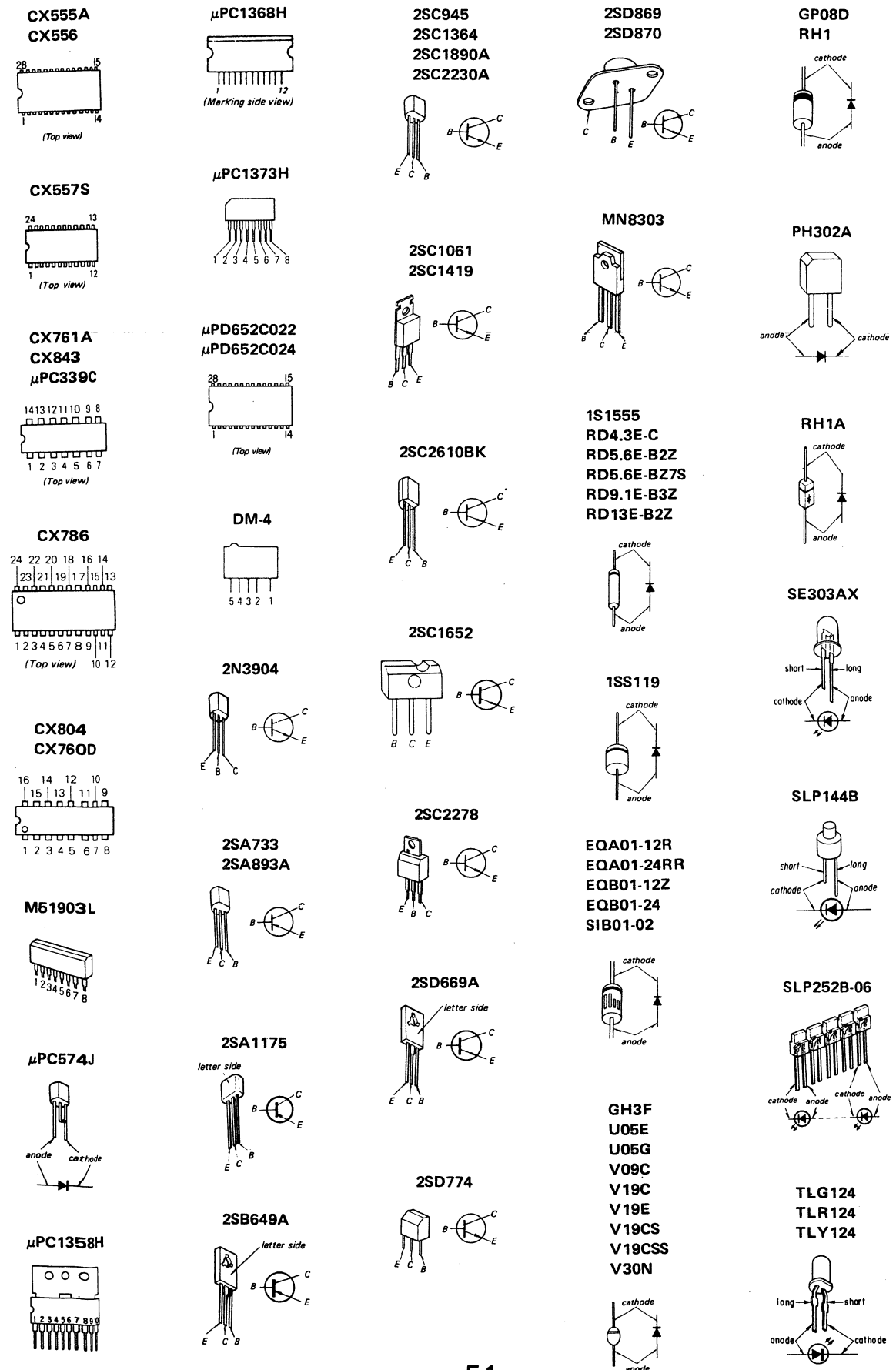
C

C

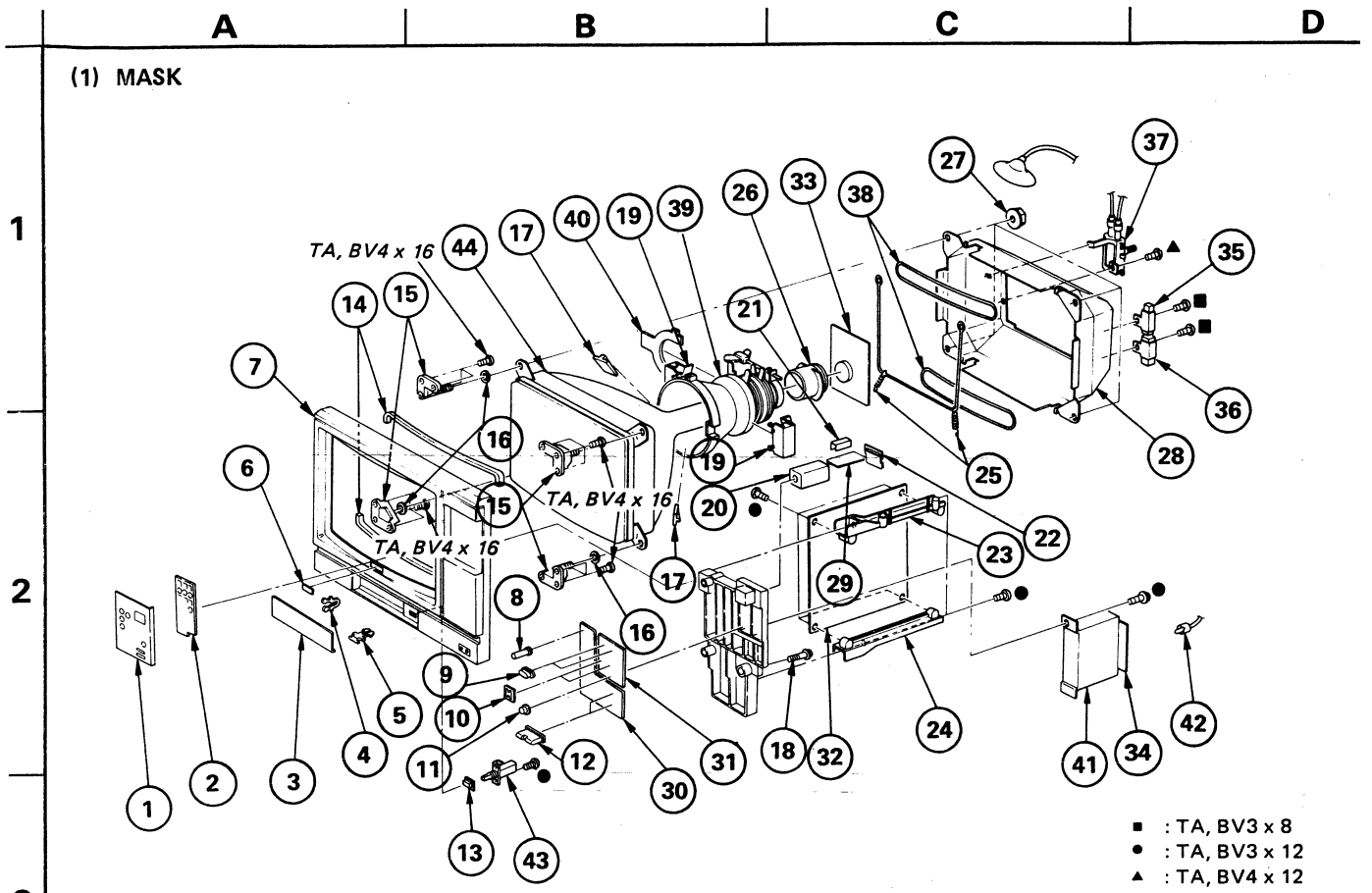
—47—

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

5-4. SEMICONDUCTORS



SECTION 6
EXPLODED VIEWS



No.	Part No	Description	Remark	No.	Part No	Description	Remark
1	X-4350-902-0	DOOR ASSY, CHANNEL		22	▲:4-342-118-00	LID, SHIELD CASE, R	
2	X-4350-903-0	CASE ASSY, LABEL		23	▲:4-334-912-00	CLAMP (B), M PC BOARD	
3	X-4350-901-0	DOOR ASSY, ADJUSTMENT	51	24	▲:4-334-911-00	CLAMP (A), M PC BOARD	
4	4-342-511-00	RETAINER, DOOR		25	4-303-774-XX	SPRING	
5	3-703-035-31	SHAFT, DOOR		26	▲:X-4333-120-0	PROTECTOR ASSY, CRT NECK	(KV-1946R)
6	3-701-912-00	EMBLEM, SONY, (LARGE)	(KV-1946R)		▲:1-452-214-00	CRT, NECK ASSY (H TYPE)	(KV-1746R)
6	3-701-933-00	EMBLEM, SONY, (LARGE)	(KV-1746R)	27	4-306-034-00	FLANGE NUT, (B) 5MM	
7	X-4348-101-0	BEZEL SUB ASSY	(KV-1746R)	28	▲:4-330-918-00	SHIELD (17V), CRT	(KV-1746R)
	X-4350-905-0	BEZEL SUB ASSY (KV-1946R)	6,14,51,52, 53,54		▲:4-342-459-00	SHIELD (19V), CRT	(KV-1946R)
8	4-348-501-00	PUSH BUTTON		29	▲:1-603-976-00	N BOARD	
9	4-333-703-00	BUTTON, CHANNEL		30	▲:1-604-593-00	M BOARD	
10	4-314-869-00	INSULATOR, SLIDE SWITCH		31	▲:1-604-594-00	M1 BOARD	
11	4-335-306-00	BUTTON, CLEAR		32	▲:A-1306-121-A	ME BOARD	
12	4-350-917-00	BUTTON, SEESAW		33	▲:A-1330-301-A	C BOARD, COMPLETE	(KV-1946R)
13	4-333-101-00	PUSH BUTTON			▲:A-1330-311-A	C BOARD, COMPLETE	(KV-1746R)
14	4-312-539-00	CUSHION (A), BEZEL		34	▲:1-600-601-00	S BOARD	
15	▲:4-339-514-00	BRACKET (S), CRT	(KV-1946R)	35	1-205-608-00	RES, CEMENT 180 (20W)	
-1▲:4-339-514-00	BRACKET (L-1), CRT	(KV-1746R)		36	▲:1-217-605-00	RES, WIREWOUND 2.2 (10W)	
-2▲:4-339-514-00	BRACKET (L-2), CRT	(KV-1746R)		37	▲:1-226-733-00	RES ASSY, HIGH-VOLTAGE	
16	4-305-312-00	WASHER, ADJUSTING, CRT		38	▲:1-425-894-51	COIL, ERASE	(KV-1746R)
17	3-703-003-00	SPACER, DY			▲:1-425-901-22	COIL, ERASE	(KV-1946R)
18	4-319-520-00	SCREW, SPECIAL, +PW4X30		39	▲:1-451-182-00	DEFLECTION YOKE (SY108A)	(KV-1946R)
19	4-334-201-00	COVER, TERMINAL, SY-75	(KV-1746R)		▲:1-451-202-00	DEFLECTION YOKE (SY75B)	(KV-1746R)
	▲:4-334-246-00	COVER, TERMINAL, SY108	(KV-1946R)	40	1-452-146-00	MAGNET, BMC	
20	▲:4-342-117-11	CASE, SHIELD (MAIN), R		41	▲:1-463-264-00	TUNER (BT-852)	
21	▲:4-348-551-00	PLATE, SHIELD		42	▲:1-551-249-00	CABLE, P-P	
				43	1-553-262-00	SWITCH, PUSH (POWER SWITCH)	
				44	▲:8-738-501-05	PICTURE TUBE (470KXB22)	(KV-1746R)
					▲:8-738-705-05	PICTURE TUBE (520RB22)	(KV-1946R)

NOTE:
• Items with no part number and no description are not stocked because they are seldom required for routine service.
• The construction parts of an assembled part are indicated with a collation number in the remark column.

• As to the part numbered with E-, refer to the electrical parts list.
• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

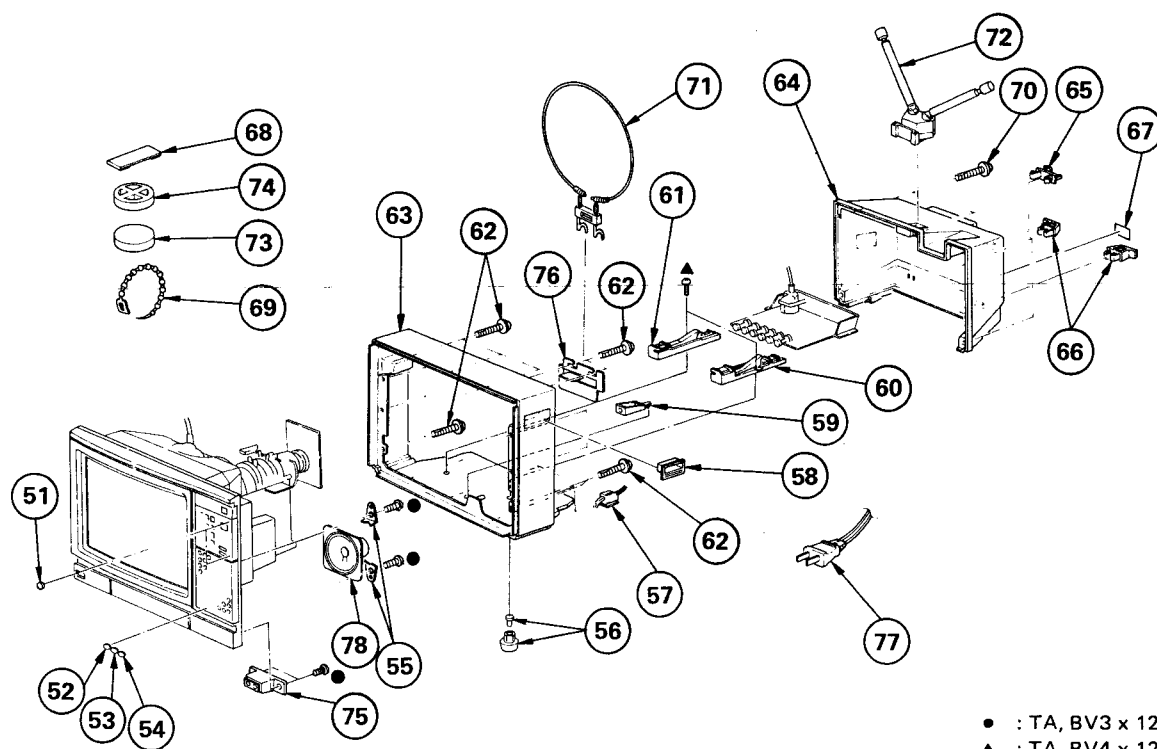
A

B

C

D

(2) CABINET



• : TA, BV3 x 12
 ▲ : TA, BV4 x 12

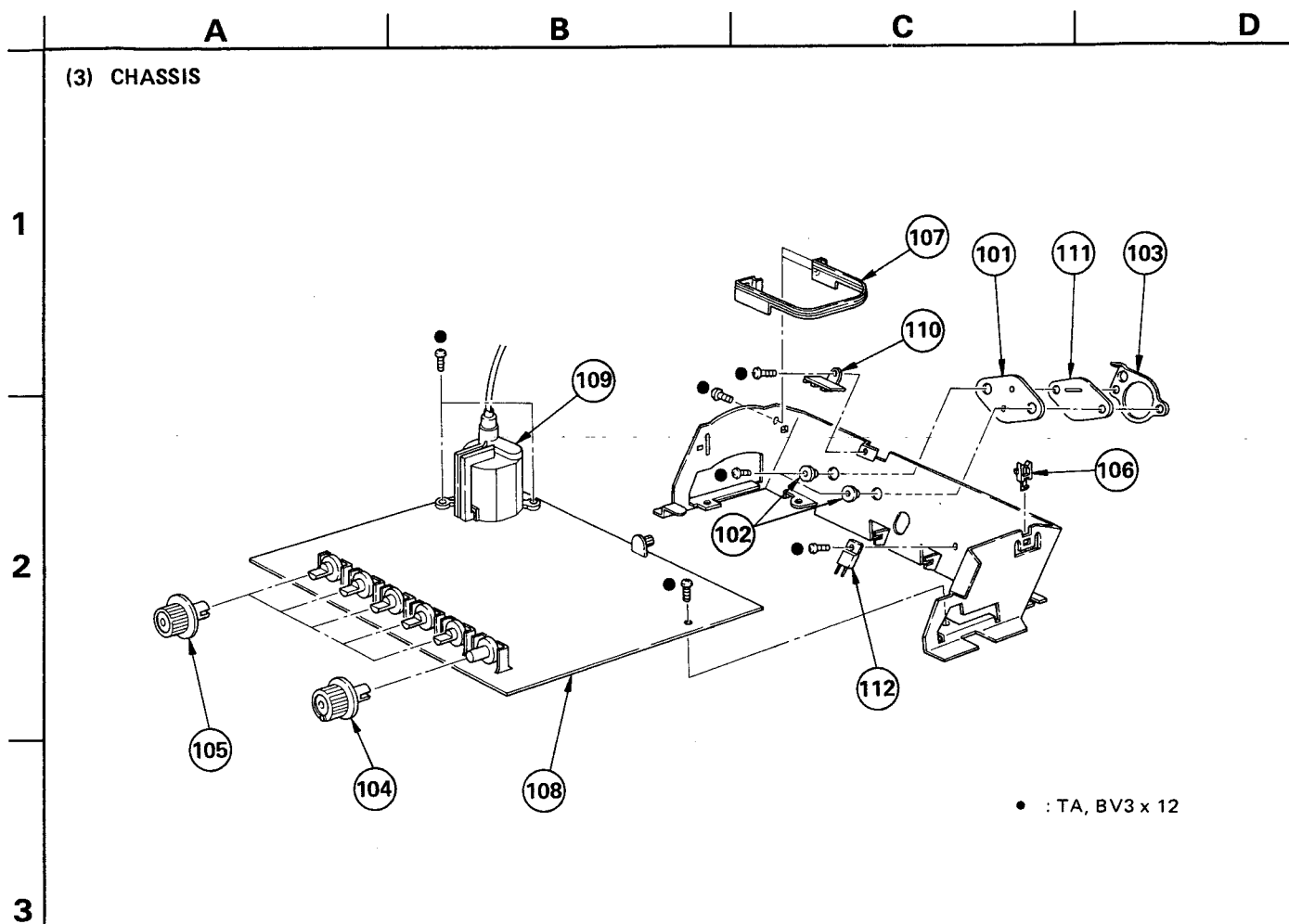
No.	Part No	Description	Remark	No.	Part No	Description	Remark
51	4-314-871-00	CUSHION		64	4-348-121-00	COVER, BACK	(KV-1746R)
52	3-703-344-01	CHIP, COLOR			4-350-909-00	COVER, BACK	(KV-1946R)
53	3-703-344-11	CHIP, COLOR		65	4-329-439-00	CLAMPER, FEEDER	
54	3-703-344-21	CHIP, COLOR		66	4-316-003-00	HOLDER, CORD	
55	▲:4-338-106-00	HOLDER, SPEAKER		67	▲:4-348-102-00	LABEL, MODEL NUMBER (USA)	(KV-1746R)
56	X-3701-047-2	FOOT ASSY			▲:4-350-939-00	LABEL, MODEL NUMBER (USA)	(KV-1946R)
57	▲:4-334-223-00	GROMMET, AC CORD		68	X-4309-608-0	PERMALLOY ASSY CONVERGENCE	
58	4-329-143-00	HANDLE		69	▲:4-308-870-00	CLIP, LEAD WIRE	
59	▲:4-334-214-00	BRACKET, BEZEL		70	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)	
60	4-335-190-00	GUIDE (RIGHT), FRAME		71	Y-2063-103-0	AN-15 LOOP ANTENNA	
61	4-335-191-00	GUIDE (LEFT), FRAME		72	Y-2201-611-0	OVERALL ASSY, AN-16	
62	4-302-429-00	SCREW, TAPPING, +PW4X20		73	1-452-032-00	MAGNET, DISC 10mm φ	
63	X-4350-907-0	CABINET ASSY (KV-1946R)	56, 58, 59, 60	74	1-452-094-00	MAGNET, DISK TYPE 15mm φ	
	X-4348-103-0	CABINET ASSY (KV-1746R)	15-1, 15-2, 56, 58, 59	75	1-507-372-00	JM-35 DOUBLE JACK	
				76	▲:1-536-584-00	TERMINAL BOARD ASSY, ANTENNA	
				77	▲:1-551-454-21	CORD, POWER	
				78	1-502-766-00	SPEAKER	

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.



No.	Part No	Description	Remark	No.	Part No	Description	Remark
101	3-701-353-00	SPACER, MICA		108	▲:A-1295-473-A	A BOARD, COMPLETE	(KV-146R)
102	3-703-320-00	BUSHING (A), TRANSISTOR			▲:A-1295-487-A	A BOARD, COMPLETE	(KV-146R)
103	▲:4-314-938-01	RETAINER (TO-3), TRANSISTOR		109	▲:1-439-254-00	TRANSFORMER ASSY, FLYBACK	
104	4-333-124-00	KNOB, SELECTION		110	1-536-401-XX	C-TYPE 1L1 LUG TERMINAL STRIP	
105	4-333-125-00	KNOB, CONTROL		111	8-729-286-90	TRANSISTOR 2SD869	(KV-146R)
106	4-333-157-00	RETAINER, AC CORD			8-729-287-00	TRANSISTOR 2SD870	(KV-146R)
107	▲:4-333-623-00	CASE, SHIELD, FBT		112	8-729-383-03	TRANSISTOR MN8303	

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

SECTION 7 ELECTRICAL PARTS LIST

N A

KV-1746R

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
	♣:1-603-976-00	N BOARD *****		C209	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
	1-232-004-00	COMPOSITION CIRCUIT BLOCK		C211	1-108-389-00	MYLAR 0.1MF 10% 100V	
		<u>CAPACITOR</u>		C212	1-123-353-00	ELECT 2.2MF 20% 50V	
C1	1-123-617-00	ELECT 10MF 20% 16V		C213	1-108-386-00	MYLAR 0.056MF 10% 100V	
C2	1-123-617-00	ELECT 10MF 20% 16V		C215	1-102-503-00	CERAMIC 3PF 0.25PF 50V	
C3	1-123-617-00	ELECT 10MF 20% 16V		C216	1-102-503-00	CERAMIC 3PF 0.25PF 50V	
C4	1-161-019-00	CERAMIC 0.033MF 10% 25V		C217	1-102-963-00	CERAMIC 33PF 5% 50V	
C5	1-108-567-00	MYLAR 0.0033MF 5% 50V		C218	1-161-282-00	CERAMIC 18PF 5% 50V	
		<u>DIODE</u>		C219	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
D1	8-719-100-33	DIODE PH302A		C220	1-102-074-00	CERAMIC 0.001MF 10% 50V	
		<u>IC</u>		C221	1-123-356-00	ELECT 10MF 20% 16V	
IC1	8-759-113-73	IC UPC1373H		C222	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
		<u>COIL</u>		C225	1-101-006-00	CERAMIC 0.047MF 50V	
L1	1-404-310-00	COIL		C226	1-161-294-00	CERAMIC 12PF 5% 50V	
*****				C228	1-123-352-00	ELECT 1MF 20% 50V	
	♣:A-1295-473-A	A BOARD, COMPLETE *****		C229	1-102-129-00	CERAMIC 0.01MF 10% 50V	
	♣:1-508-915-11	PLUG, 1P		C230	1-102-114-00	CERAMIC 470PF 10% 50V	
	♣:1-509-832-00	CONNECTOR ASSY, 1P		C231	1-108-379-00	MYLAR 0.015MF 10% 100V	
	♣:1-509-887-00	CONNECTOR ASSY 1P		C232	1-123-351-00	ELECT 0.47MF 20% 50V	
	1-517-072-00	LAMP HOLDER		C233	1-123-323-00	ELECT 470MF 20% 16V	
	♣:1-533-146-00	HOLDER, FUSE		C234	1-123-356-00	ELECT 10MF 20% 16V	
	♣:1-555-020-00	CONNECTOR ASSY, MINIATURE 3P		C235	1-123-351-00	ELECT 0.47MF 20% 50V	
	♣:4-334-250-00	CASE, SHIELD (MAIN)		C236	1-102-820-00	CERAMIC 330PF 5% 50V	
	♣:4-334-251-00	LID, UPPER, SHIELD CASE		C237	1-102-244-00	CERAMIC 220PF 10% 500V	
	♣:4-334-252-00	LID, REAR, SHIELD CASE		C238	1-123-026-00	ELECT 2.2MF 160V	
	♣:4-342-401-00	HEAT SHINK, V OUT		C239	1-123-352-00	ELECT 1MF 20% 50V	
		<u>CONNECTOR</u>		C240	1-102-496-00	CERAMIC 82PF 5% 50V	
A1	♣:1-506-348-XX	3P PLUG (L)		C241	1-102-518-00	CERAMIC 33PF 5% 50V	
A2	♣:1-508-765-00	3P PLUG (M)		C242	1-102-494-00	CERAMIC 68PF 5% 50V	
A3	♣:1-508-786-00	2P PLUG (M)		C243	1-123-381-00	ELECT 2.2MF 20% 100V	
A5	♣:1-506-371-00	2P PLUG (L)		C245	1-161-279-00	CERAMIC 10PF 5% 50V	
A6	♣:1-508-765-00	3P PLUG (M)		C246	1-102-129-00	CERAMIC 0.01MF 10% 50V	
A7	♣:1-508-766-00	4P PLUG (M)		C247	1-108-369-00	MYLAR 0.0022MF 10% 100V	
A10	♣:1-508-765-00	3P PLUG (M)		C249	1-123-319-00	ELECT 47MF 20% 16V	
A14	♣:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		C250	1-101-845-00	CERAMIC 0.001MF 500V	
A15	♣:1-560-128-00	PLUG, CONNECTOR (2.5MM PITCH)		C251	1-102-074-00	CERAMIC 0.001MF 10% 50V	
A23	♣:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		C302	1-161-271-00	CERAMIC 100PF 5% 50V	
		<u>CAPACITOR</u>		C303	1-161-272-00	CERAMIC 120PF 5% 50V	
C201	1-101-888-00	CERAMIC 68PF 5% 50V		C304	1-121-806-00	ELECT 10MF 16V	
C205	1-102-121-00	CERAMIC 0.0022MF 10% 50V		C308	1-101-004-00	CERAMIC 0.01MF 50V	
C206	1-102-121-00	CERAMIC 0.0022MF 10% 50V		C309	1-102-820-00	CERAMIC 330PF 5% 50V	
C207	1-161-383-00	CERAMIC 0.0047MF 10% 50V		C310	1-123-351-00	ELECT 0.47MF 20% 50V	
C208	1-102-121-00	CERAMIC 0.0022MF 10% 50V		C311	1-108-370-00	MYLAR 0.0027MF 10% 100V	
				C312	1-123-586-00	ELECT 0.1MF 20% 50V	
				C313	1-108-385-00	MYLAR 0.047MF 10% 100V	
				C314	1-123-356-00	ELECT 10MF 20% 16V	
				C315	1-123-354-00	ELECT 3.3MF 20% 50V	
				C316	1-102-963-00	CERAMIC 33PF 5% 50V	
				C317	1-102-822-00	CERAMIC 390PF 5% 50V	
				C318	1-123-447-00	ELECT 0.22MF 20% 50V	
				C319	1-123-328-00	ELECT 4.7MF 20% 25V	
				C320	1-123-447-00	ELECT 0.22MF 20% 50V	
				C321	1-101-888-00	CERAMIC 68PF 5% 50V	

NOTE:

The components identified by shading and mark ♣ are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked " ♣ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

A

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Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C323	1-102-947-00	CERAMIC	10PF 5% 50V	C551	1-108-632-11	MYLAR	0.033 10% 100V
C324	1-102-959-00	CERAMIC	22PF 5% 50V	C553	1-102-030-00	CERAMIC	330PF 10% 500V
C326	1-123-321-00	ELECT	220MF 20% 16V	C554	1-123-351-00	ELECT	0.47MF 20% 50V
C327	1-161-271-00	CERAMIC	100PF 5% 50V	C555	1-123-344-00	ELECT	47MF 20% 35V
C328	1-161-316-00	CERAMIC	270PF 10% 50V	C556	1-123-351-00	ELECT	0.47MF 20% 50V
C329	1-123-356-00	ELECT	10MF 20% 16V	C558	1-123-354-00	ELECT	3.3MF 20% 50V
C330	1-102-947-00	CERAMIC	10PF 5% 50V	C559	1-102-212-00	CERAMIC	820PF 10% 500V
C331	1-102-947-00	CERAMIC	10PF 5% 50V	C560	1-102-129-00	CERAMIC	0.01MF 10% 50V
C501	1-123-352-00	ELECT	1MF 20% 50V	C561	1-102-074-00	CERAMIC	0.001MF 10% 50V
C502	1-161-003-00	CERAMIC	0.0015MF 10% 25V	C575	1-123-328-00	ELECT	4.7MF 20% 25V
C505	1-123-354-00	ELECT	3.3MF 20% 50V	C576	1-123-351-00	ELECT	0.47MF 20% 50V
C506	1-108-625-00	MYLAR	0.0082 10% 100V	C577	1-108-387-00	MYLAR	0.068MF 10% 100V
C507	1-161-063-00	CERAMIC	0.1MF 10% 50V	C578	1-123-352-00	ELECT	1MF 20% 50V
C508	1-130-203-00	FILM	0.01MF 5% 50V	C601	1-108-745-00	MYLAR	0.22MF 20% 125V
C509	1-108-373-00	MYLAR	0.0047MF 10% 100V	C605	1-125-215-00	ELECT (BLOCK)	560MF 200V
C510	1-161-018-00	CERAMIC	0.027MF 10% 25V	C606	1-123-355-00	ELECT	4.7MF 20% 50V
C511	1-123-353-00	ELECT	2.2MF 20% 50V	C607	1-121-246-00	ELECT	4.7MF 160V
C512	1-123-351-00	ELECT	0.47MF 20% 50V	C608	1-102-030-00	CERAMIC	330PF 10% 500V
C514	1-123-356-00	ELECT	10MF 20% 16V	C609	1-123-026-00	ELECT	2.2MF 160V
C515	1-161-383-00	CERAMIC	0.0047MF 10% 50V	FILTER			
C516	1-102-820-00	CERAMIC	330PF 5% 50V	CF201	1-527-260-00	FILTER, CERAMIC (4.5MHZ)	
C517	1-102-030-00	CERAMIC	330PF 10% 500V	CF202	1-409-332-00	CERAMIC TRAP (4.5MHZ)	
C518	1-108-689-11	MYLAR	0.0056MF 10% 200V	TRIMMER			
C519	1-121-757-00	ELECT	33MF 160V	CV301	1-141-212-00	CAP, TRIMMER	
C520	1-123-344-00	ELECT	47MF 20% 35V	DIODE			
C521	1-123-356-00	ELECT	10MF 20% 16V	D202	8-719-113-25	DIODE RD13E-B2Z	
C522	1-108-618-11	MYLAR	0.0022 10% 100V	D203	=>8-719-911-19	DIODE 1SS119	
C523	1-108-384-00	MYLAR	0.039MF 10% 100V	D204	=>8-719-911-19	DIODE 1SS119	
C524	1-131-361-00	TANTALUM	2.2MF 20% 20V	D301	=>8-719-900-93	DIODE V09C	
C525	1-123-323-00	ELECT	470MF 20% 16V	D501	=>8-719-911-19	DIODE 1SS119	
C526	1-131-197-00	TANTALUM	3.3MF 10% 16V	D502	=>8-719-156-25	DIODE RD5.6E-B2Z	
C527	1-108-626-11	MYLAR	0.01 10% 100V	D505	=>8-719-911-55	DIODE U05G	
C528	1-108-626-11	MYLAR	0.01 10% 100V	D506	=>8-719-900-93	DIODE V09C	
C529	1-123-344-00	ELECT	47MF 20% 35V	D507	=>8-719-911-55	DIODE U05G	
C530	1-102-228-00	CERAMIC	470PF 10% 500V	D508	=>8-719-911-55	DIODE U05G	
C531	1-123-587-00	ELECT	560MF 10% 25V	D509	8-719-305-15	DIODE GH3F	
C532	1-123-584-00	ELECT	22MF 10% 16V	D510	8-719-305-15	DIODE GH3F	
C533	1-123-330-00	ELECT	22MF 20% 25V	D511	8-719-901-95	DIODE V19CSS	
C534	1-123-003-00	ELECT	1MF 250V	D512	=>8-719-300-76	DIODE RH1A	
C535	1-130-100-00	FILM	0.27MF 5% 400V	D513	8-719-903-09	DIODE V30N	
C536	1-102-212-00	CERAMIC	820PF 10% 500V	D514	8-719-903-09	DIODE V30N	
C537	1-123-357-00	ELECT	22MF 20% 50V	D515	=>8-719-931-24	DIODE EQB01-24	
C538	1-123-447-00	ELECT	0.22MF 20% 50V	D601	=>8-719-911-55	DIODE U05G	
C539	1-123-346-00	ELECT	220MF 20% 35V	D602	=>8-719-911-55	DIODE U05G	
C540	1-102-212-00	CERAMIC	820PF 10% 500V	D603	=>8-719-911-55	DIODE U05G	
C541	1-102-212-00	CERAMIC	820PF 10% 500V	D604	=>8-719-911-55	DIODE U05G	
C542	1-123-335-00	ELECT	330MF 20% 25V	DELAY LINE			
C544	1-123-385-00	ELECT	22MF 20% 100V	DL301	1-415-200-00	DELAY LINE	
C545	1-130-227-00	FILM	7500PF 3% 1.2KV				
C546	1-108-961-00	MYLAR	0.15MF 10% 200V				
C548	1-102-223-00	CERAMIC	0.0047MF 20% 1.6KV				
C549	1-121-246-00	ELECT	4.7MF 160V				
C550	1-102-973-00	CERAMIC	100PF 5% 50V				

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
MF : μ F, PF : μ P

RESISTORS
All resistors are in ohms
F : nonflammable

COILS
MMH : mH, UH : μ H

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Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
<u>CONNECTOR</u>							
DY1	▲:1-506-348-XX	3P PLUG (L)		Q301	8-729-663-47	TRANSISTOR 2SC1364	
DY2	▲:1-506-348-XX	3P PLUG (L)		Q502	8-729-326-10	TRANSISTOR 2SC2610BK	
<u>FUSE</u>				Q503	8-729-177-43	TRANSISTOR 2SD774	
F601	▲:1-532-272-XX	FUSE 5A		Q505	8-729-663-47	TRANSISTOR 2SC1364	
F602	▲:1-532-570-00	FUSE, GLASS TUBE 1.25A		Q506	⇒8-729-117-54	TRANSISTOR 2SA1175	
<u>IC</u>				<u>RESISTOR</u>			
IC201	8-759-600-05	IC CX-555A		R200	1-246-521-00	CARBON 100K 5% 1/4W	
IC202	8-759-600-43	IC CX-843A		R201	1-246-431-00	CARBON 18 5% 1/4W	
IC301	8-759-105-56	IC CX-556		R203	1-246-422-00	CARBON 7.5 5% 1/4W	
IC501	8-759-100-07	IC CX-557S		R208	1-246-481-00	CARBON 2.2K 5% 1/4W	
IC502	8-759-113-58	IC UPC1358H		R209	1-246-497-00	CARBON 10K 5% 1/4W	
IC601	▲:1-231-705-00	MODULE, POWER		R210	1-246-463-00	CARBON 390 5% 1/4W	
<u>JACK</u>				R211	1-246-469-00	CARBON 680 5% 1/4W	
J201	▲:1-526-575-00	SOCKET, PLUG		R212	1-211-602-00	CARBON 33 5% 1/2W	F
<u>COIL</u>				R214	1-246-457-00	CARBON 220 5% 1/4W	
L201	1-407-694-00	MICRO INDUCTOR 12UH		R215	1-246-461-00	CARBON 330 5% 1/4W	
L202	1-407-687-00	MICRO INDUCTOR 3.3UH		R216	1-246-483-00	CARBON 2.7K 5% 1/4W	
L203	1-407-189-XX	MICRO INDUCTOR 8.2UH		R217	1-246-519-00	CARBON 82K 5% 1/4W	
L204	1-425-613-00	COIL, AIR-CORE, QF TYPE		R218	1-246-473-00	CARBON 1K 5% 1/4W	
L205	1-407-701-00	MICRO INDUCTOR 47UH		R220	1-246-517-00	CARBON 68K 5% 1/4W	
L302	1-407-699-00	MICRO INDUCTOR 33UH		R221	1-246-469-00	CARBON 680 5% 1/4W	
L303	1-408-163-00	MICRO INDUCTOR 5.6MMH		R222	1-246-473-00	CARBON 1K 5% 1/4W	
L304	1-407-166-XX	MICRO INDUCTOR 56UH		R223	1-246-473-00	CARBON 1K 5% 1/4W	
L305	1-407-698-00	MICRO INDUCTOR 27UH		R226	1-246-481-00	CARBON 2.2K 5% 1/4W	
L501	1-407-693-00	MICRO INDUCTOR 10UH		R227	1-246-507-00	CARBON 27K 5% 1/4W	
L502	▲:1-459-350-00	COIL, FERRITE (HLC)		R228	1-246-483-00	CARBON 2.7K 5% 1/4W	
L503	▲:1-459-349-00	COIL, VAR, FERRITE (HMC)		R229	1-246-473-00	CARBON 1K 5% 1/4W	
L504	1-407-501-31	MICRO INDUCTOR 5.6MMH		R230	1-246-522-00	CARBON 110K 5% 1/4W	
L505	1-407-699-00	MICRO INDUCTOR 33UH		R231	1-246-497-00	CARBON 10K 5% 1/4W	
L506	▲:1-408-226-00	MICRO INDUCTOR 82UH		R232	1-212-897-00	FUSIBLE 470 5% 1/4W	F
L508	1-407-202-XX	MICRO INDUCTOR 4.7MMH		R233	1-246-449-00	CARBON 100 5% 1/4W	
L509	▲:1-408-300-00	MICRO INDUCTOR 6.8UH		R234	1-246-459-00	CARBON 270 5% 1/4W	
L514	1-407-494-00	MICRO INDUCTOR 1.5MMH		R235	1-246-451-00	CARBON 120 5% 1/4W	
L601	▲:1-408-225-00	MICRO INDUCTOR 3.3UH		R236	1-246-481-00	CARBON 2.2K 5% 1/4W	
L602	▲:1-408-225-00	MICRO INDUCTOR 3.3UH		R237	1-211-421-00	CARBON 39 5% 1/8W	F
<u>NEON LAMP</u>				R239	1-246-489-00	CARBON 4.7K 5% 1/4W	
NL501	1-519-108-XX	LAMP, NEON ASSY		R240	1-246-485-00	CARBON 3.3K 5% 1/4W	
NL601	1-519-108-XX	LAMP, NEON ASSY		R241	1-246-489-00	CARBON 4.7K 5% 1/4W	
<u>TRANSISTOR</u>				R243	1-212-375-00	METAL 18 5% 1W	F
Q202	8-729-663-47	TRANSISTOR 2SC1364		R245	1-246-521-00	CARBON 100K 5% 1/4W	
Q203	⇒8-729-316-16	TRANSISTOR 2SC1061		R246	1-211-602-00	CARBON 33 5% 1/2W	F
Q204	8-729-309-06	TRANSISTOR 2SC1890A		R247	1-246-473-00	CARBON 1K 5% 1/4W	
Q205	8-729-306-92	TRANSISTOR 2SD669A		R249	1-246-473-00	CARBON 1K 5% 1/4W	
Q206	8-729-304-92	TRANSISTOR 2SB649A		R250	1-246-473-00	CARBON 1K 5% 1/4W	
				R301	1-246-477-00	CARBON 1.5K 5% 1/4W	
				R302	1-246-479-00	CARBON 1.8K 5% 1/4W	
				R306	1-246-483-00	CARBON 2.7K 5% 1/4W	
				R307	1-246-443-00	CARBON 56 5% 1/4W	
				R309	1-246-491-00	CARBON 5.6K 5% 1/4W	
				R310	1-246-469-00	CARBON 680 5% 1/4W	

NOTE:

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

• ⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.


CAPACITORS
• MF : μ F, PF : μ μ F







RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H


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
- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R311	1-246-505-00	CARBON	22K 5% 1/4W	R544	1-246-481-00	CARBON	2.2K 5% 1/4W
R312	1-246-473-00	CARBON	1K 5% 1/4W	R545	1-244-849-00	CARBON	100 5% 1/2W
R313	1-246-498-00	CARBON	11K 5% 1/4W	R546	1-247-009-00	CARBON	470 5% 1/4W F
R314	1-246-506-00	CARBON	24K 5% 1/4W	R547	1-246-491-00	CARBON	5.6K 5% 1/4W
R315	1-246-473-00	CARBON	1K 5% 1/4W	R548	1-211-417-00	CARBON	22 5% 1/8W F
R316	1-246-477-00	CARBON	1.5K 5% 1/4W	R549	1-246-483-00	CARBON	2.7K 5% 1/4W
R317	1-246-461-00	CARBON	330 5% 1/4W	R550	1-206-705-00	METAL	150 5% 3W F
R318	1-246-461-00	CARBON	330 5% 1/4W	R551	1-247-015-00	CARBON	2.2K 5% 1/4W F
R320	1-246-469-00	CARBON	680 5% 1/4W	R552	1-246-513-00	CARBON	47K 5% 1/4W
R321	1-246-461-00	CARBON	330 5% 1/4W	R553	1-246-490-00	CARBON	5.1K 5% 1/4W
R323	1-246-495-00	CARBON	8.2K 5% 1/4W	R554	1-212-361-00	METAL	1.2 5% 1W F
R326	1-246-457-00	CARBON	220 5% 1/4W	R555	1-213-146-00	METAL	1.8K 5% 1W F
R327	1-246-479-00	CARBON	1.8K 5% 1/4W	R556A	1-214-908-00	METAL	62K 1% 1/2W
R328	1-246-477-00	CARBON	1.5K 5% 1/4W	R557	1-246-491-00	CARBON	5.6K 5% 1/4W
R331	1-246-487-00	CARBON	3.9K 5% 1/4W	R558	1-244-897-00	CARBON	10K 5% 1/2W
R332	1-246-449-00	CARBON	100 5% 1/4W	R559	1-246-475-00	CARBON	1.2K 5% 1/4W
R333	1-246-467-00	CARBON	560 5% 1/4W	R560	1-206-678-00	METAL	3.9K 5% 2W F
R501	1-246-453-00	CARBON	150 5% 1/4W	R561	1-213-140-00	METAL	560 5% 1W F
R502	1-246-537-00	CARBON	470K 5% 1/4W	R562	1-212-356-00	METAL	0.47 5% 1W F
R506	1-246-511-00	CARBON	39K 5% 1/4W	 R563 		CARBON	1/4W
R507	1-246-518-00	CARBON	75K 5% 1/4W	R570	1-246-461-00	CARBON	330 5% 1/4W
R508	1-246-509-00	CARBON	33K 5% 1/4W	R575	1-246-491-00	CARBON	5.6K 5% 1/4W
R509	1-246-523-00	CARBON	120K 5% 1/4W	R576	1-246-465-00	CARBON	470 5% 1/4W
R510	1-246-487-00	CARBON	3.9K 5% 1/4W	R577	1-246-533-00	CARBON	330K 5% 1/4W
R511	1-246-504-00	CARBON	20K 5% 1/4W	R578	1-246-513-00	CARBON	47K 5% 1/4W
R512	1-246-481-00	CARBON	2.2K 5% 1/4W	R579	1-246-475-00	CARBON	1.2K 5% 1/4W
R514	1-246-507-00	CARBON	27K 5% 1/4W	R581	1-246-485-00	CARBON	3.3K 5% 1/4W
R515	1-246-489-00	CARBON	4.7K 5% 1/4W	R583	1-246-529-00	CARBON	220K 5% 1/4W
R516	1-246-479-00	CARBON	1.8K 5% 1/4W	R584	1-246-481-00	CARBON	2.2K 5% 1/4W
R517	1-246-453-00	CARBON	150 5% 1/4W	R585	1-211-933-00	CARBON	47 5% 1/8W F
R518	1-246-481-00	CARBON	2.2K 5% 1/4W	R602 	1-202-719-00	COMPOSITION	1M 10% 1/2W
R520	1-206-679-00	METAL	4.3K 5% 2W F	R603	1-213-163-00	METAL	47K 5% 1W F
R521	1-246-467-00	CARBON	560 5% 1/4W	R605	1-246-991-00	CARBON	150 5% 1/8W F
R523A	1-246-453-00	CARBON	150 5% 1/4W	R606 	1-213-156-00	METAL	12K 5% 1W F
R524	1-246-493-00	CARBON	6.8K 5% 1/4W	R607 	1-244-890-00	CARBON	5.1K 5% 1/2W
R525	1-246-495-00	CARBON	8.2K 5% 1/4W	R608	1-247-037-00	CARBON	390 5% 1/8W F
R526	1-246-506-00	CARBON	24K 5% 1/4W	R609 	1-213-163-00	METAL	47K 5% 1W F
R527	1-246-457-00	CARBON	220 5% 1/4W	R610	1-246-528-00	CARBON	200K 5% 1/4W
R528	1-214-152-00	METAL	6.8K 1% 1/4W	VARIABLE RESISTOR			
R529	1-214-158-00	METAL	12K 1% 1/4W				
R530	1-246-501-00	CARBON	15K 5% 1/4W	RV201	1-224-644-XX	RES, ADJ, CARBON	4.7K
R531	1-246-513-00	CARBON	47K 5% 1/4W	RV202	1-224-644-XX	RES, ADJ, CARBON	4.7K
R532	1-246-497-00	CARBON	10K 5% 1/4W	RV301A	1-226-078-00	RES, VAR, CARBON (SNAP IN)	10K
R533	1-246-489-00	CARBON	4.7K 5% 1/4W	RV303	1-226-408-00	RES, VAR, CARBON (SNAP IN)	500
R535	1-244-863-00	CARBON	390 5% 1/2W	RV304	1-224-644-XX	RES, ADJ, CARBON	4.7K
R536	1-246-465-00	CARBON	470 5% 1/4W	RV305	1-226-075-00	RES, VAR, CARBON (SNAP IN)	10K
R537	1-212-361-00	METAL	1.2 5% 1W F	RV306	1-226-075-00	RES, VAR, CARBON (SNAP IN)	10K
R538	1-246-475-00	CARBON	1.2K 5% 1/4W	RV307	1-224-552-00	RES, ADJ, CARBON	470K
R539	1-246-475-00	CARBON	1.2K 5% 1/4W	RV308	1-224-641-XX	RES, ADJ, CARBON	470
R540	1-246-505-00	CARBON	22K 5% 1/4W	RV501	1-226-819-00	RES, ADJ, METAL GLAZE	1K
R541	1-246-481-00	CARBON	2.2K 5% 1/4W	RV502	1-224-967-00	RES, ADJ, CARBON	22K
R542	1-246-996-00	CARBON	2.2K 5% 1/8W F	RV503A	1-226-077-00	RES, VAR, CARBON (SNAP IN)	5K
R543B	1-246-443-00	CARBON	56 5% 1/4W	RV504	1-224-644-XX	RES, ADJ, CARBON	4.7K

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RESISTORS
• All resistors are in ohms
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COILS
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Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
<u>SWITCH</u>							
S301	1-553-176-00	SWITCH, ROTARY		NL2225	1-519-154-00	LAMP, NEON	
<u>SPARK GAP</u>				NL2226	1-519-130-51	LAMP, NEON	
SG501	1-519-063-XX	DISCHARGING GAP		<u>SWITCH</u>			
<u>TRANSFORMER</u>				S2206	1-553-685-00	SWITCH, PUSH	
T201	1-409-319-00	COIL, TRAP		S2207	1-553-685-00	SWITCH, PUSH	
T202	1-409-318-00	COIL, TRAP		S2208	1-553-685-00	SWITCH, PUSH	
T203	1-404-181-00	COIL, VIF		S2209	1-553-685-00	SWITCH, PUSH	
T204	1-404-182-00	COIL, VIF		S2210	1-553-685-00	SWITCH, PUSH	
T205	1-404-181-00	COIL, VIF		S2211	1-552-437-00	SWITCH, LEVER	
T206	1-403-367-00	COIL, SIF		S2212	1-552-774-00	SWITCH, PUSH	
T207	1-403-871-00	SIFT-2 COIL		S2213	1-552-774-00	SWITCH, PUSH	
T208	1-404-179-00	FILTER, HELICAL		S2214	1-552-774-00	SWITCH, PUSH	
T209	1-427-437-00	TRANSFORMER, OUTPUT		S2215	1-552-774-00	SWITCH, PUSH	
T301	1-425-995-00	TRANSFORMER, INPUT		S2216	1-552-774-00	SWITCH, PUSH	
T302	1-409-193-00	COIL 3.58MHZ TRAP		S2217	1-552-774-00	SWITCH, PUSH	
T501	1-437-090-00	HDT		S2218	1-552-774-00	SWITCH, PUSH	
T502	1-421-451-00	H. PCT		S2219	1-552-774-00	SWITCH, PUSH	
T503	1-439-254-00	TRANSFORMER ASSY. FLYBACK		S2220	1-552-774-00	SWITCH, PUSH	
T601	1-421-357-00	TRANSFORMER, LINE FILTER		S2221	1-552-774-00	SWITCH, PUSH	
<u>THERMISTOR</u>				S2222	1-552-774-00	SWITCH, PUSH	
THP601A	1-800-686-00	THERMISTOR		S2223	1-552-774-00	SWITCH, PUSH	
<u>CRYSTAL</u>				S2224	1-552-774-00	SWITCH, PUSH	
X301	1-527-396-00	CRYSTAL, OSC		S2225	1-552-774-00	SWITCH, PUSH	
*****				*****			
♣:1-604-593-00 M BOARD				♣:1-604-594-00 M1 BOARD			
*****				*****			
<u>DIODE</u>				♣:4-333-118-00 HOLDER (B), LED			
D2209	8-719-815-55	DIODE 1S1555		♣:4-342-714-00 COVER, LED			
D2210	8-719-815-55	DIODE 1S1555		♣:4-350-901-00 HOLDER (M), LED			
<u>NEON LAMP</u>				<u>CAPACITOR</u>			
NL2212	1-519-154-00	LAMP, NEON		C2201	1-123-353-00	ELECT 2.2MF	20% 50V
NL2213	1-519-154-00	LAMP, NEON		C2202	1-123-352-00	ELECT 1MF	20% 50V
NL2214	1-519-154-00	LAMP, NEON		<u>DIODE</u>			
NL2215	1-519-154-00	LAMP, NEON		D2201	8-719-925-26	DIODE SLP252B-06	
NL2216	1-519-154-00	LAMP, NEON		D2206	8-719-812-41	DIODE TLR124	
NL2217	1-519-154-00	LAMP, NEON		D2207	8-719-812-42	DIODE TLY124	
NL2218	1-519-154-00	LAMP, NEON		D2208	8-719-812-43	DIODE TLG124	
NL2219	1-519-154-00	LAMP, NEON		<u>IC</u>			
NL2220	1-519-154-00	LAMP, NEON		IC2201	8-759-619-03	IC M51903L	
NL2221	1-519-154-00	LAMP, NEON		<u>RESISTOR</u>			
NL2222	1-519-154-00	LAMP, NEON		R2200	1-246-497-00	CARBON 10K 5% 1/4W	
NL2223	1-519-154-00	LAMP, NEON		R2201	1-246-469-00	CARBON 680 5% 1/4W	
NL2224	1-519-154-00	LAMP, NEON		R2202	1-246-469-00	CARBON 680 5% 1/4W	
				R2203	1-246-469-00	CARBON 680 5% 1/4W	
				R2204	1-246-469-00	CARBON 680 5% 1/4W	
				R2205	1-246-469-00	CARBON 680 5% 1/4W	

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Ref.No	Part No	Description	Remark		
R2206	1-246-449-00	CARBON	100	5%	1/4W
R2207	1-246-485-00	CARBON	3.3K	5%	1/4W
SWITCH					
S2201	1-552-656-00	SWITCH, SLIDE			
S2202	1-552-656-00	SWITCH, SLIDE			
S2203	1-553-685-00	SWITCH, PUSH			
S2204	1-553-685-00	SWITCH, PUSH			
S2205	1-553-685-00	SWITCH, PUSH			

▲:A-1306-121-A		ME BOARD COMPLETE			

▲:4-334-254-00		CASE (MAIN), SHIELD, M2			
▲:4-334-255-00		LID, UPPER, M2 SHIELD CASE			
▲:4-334-256-00		LID, REAR, M2 SHIELD CASE			
CAPACITOR					
C001	1-161-272-00	CERAMIC	120PF	5%	50V
C002	1-123-352-00	ELECT	1MF	20%	50V
C003	1-123-352-00	ELECT	1MF	20%	50V
C004	1-161-319-00	CERAMIC	470PF	10%	50V
C006	1-161-323-00	CERAMIC	0.001MF	10%	50V
C007	1-123-333-00	ELECT	100MF	20%	16V
C009	1-161-315-00	CERAMIC	220PF	10%	50V
C010	1-161-315-00	CERAMIC	220PF	10%	50V
C011	1-161-315-00	CERAMIC	220PF	10%	50V
C012	1-161-315-00	CERAMIC	220PF	10%	50V
C013	1-161-315-00	CERAMIC	220PF	10%	50V
C014	1-123-254-00	ELECT	10MF		250V
C015	1-102-189-00	CERAMIC	0.0047MF		125V
C015	1-161-748-00	CERAMIC	0.0047MF		125V
C016	1-123-356-00	ELECT	10MF	20%	16V
C017	1-161-319-00	CERAMIC	470PF	10%	50V
C018	1-123-351-00	ELECT	0.47MF	20%	50V
C031	1-123-355-00	ELECT	4.7MF	20%	50V
C032	1-161-327-00	CERAMIC	0.0033MF	30%	50V
C033	1-123-355-00	ELECT	4.7MF	20%	50V
C034	1-161-267-00	CERAMIC	47PF	5%	50V
C035	1-108-389-00	MYLAR	0.1MF	10%	100V
C036	1-161-270-00	CERAMIC	82PF	5%	50V
C038	1-130-020-00	FILM	0.0015MF	5%	50V
C039	1-130-018-00	FILM	0.001MF	5%	50V
C040	1-130-018-00	FILM	0.001MF	5%	50V
C041	1-161-271-00	CERAMIC	100PF	5%	50V
C043	1-123-352-00	ELECT	1MF	20%	50V
C044	1-108-393-00	MYLAR	0.22MF	10%	100V
C045	1-123-356-00	ELECT	10MF	20%	16V
C046	1-108-377-00	MYLAR	0.01MF	10%	100V
C047	1-161-271-00	CERAMIC	100PF	5%	50V
C049	1-123-318-00	ELECT	33MF	20%	16V
C050	1-123-318-00	ELECT	33MF	20%	16V
C052	1-108-421-00	MYLAR	0.01MF	10%	200V

Ref.No	Part No	Description	Remark
C053	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C054	1-108-421-00	MYLAR 0.01MF 10% 200V	
C056	1-108-421-00	MYLAR 0.01MF 10% 200V	
C058	1-123-333-00	ELECT 100MF 20% 16V	
C059	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C061	1-123-356-00	ELECT 10MF 20% 16V	
C062	1-123-333-00	ELECT 100MF 20% 16V	
C063	1-161-269-00	CERAMIC 68PF 5% 50V	
C064	1-161-271-00	CERAMIC 100PF 5% 50V	
C065	1-161-317-00	CERAMIC 330PF 10% 50V	
C142	1-101-004-00	CERAMIC 0.01MF 50V	
<u>COMPOSITION</u>			
CP001	1-231-569-00	COMPOSITION CIRCUIT BLOCK	
CP002	1-231-683-00	COMPOSITION CIRCUIT BLOCK	
CP003	1-231-618-00	COMPOSITION CIRCUIT BLOCK	
<u>DIODE</u>			
D002	=>8-719-911-19	DIODE 1SS119	
D006	=>8-719-930-12	DIODE EQB01-12Z	
D007	=>8-719-911-55	DIODE U05G	
D008	8-719-900-93	DIODE V09C	
D009	8-719-100-24	DIODE RD4.3EB3	
D010	=>8-719-911-19	DIODE 1SS119	
D011	=>8-719-911-19	DIODE 1SS119	
D013	=>8-719-911-19	DIODE 1SS119	
D030	=>8-719-911-19	DIODE 1SS119	
D033	=>8-719-911-19	DIODE 1SS119	
D034	=>8-719-911-19	DIODE 1SS119	
D035	=>8-719-911-19	DIODE 1SS119	
D038	=>8-719-911-19	DIODE 1SS119	
D039	8-719-191-26	DIODE RD9.1E-R3Z	
<u>IC</u>			
IC001	=>8-759-150-24	IC UPD652C024	
IC031	8-759-157-40	IC UPC574J	
IC032	8-757-604-00	IC CX-760D	
IC033	8-758-040-00	IC CX-804	
IC034	8-757-611-00	IC CX-761A	
<u>COIL</u>			
L031	1-408-247-00	MICRO INDUCTOR 33MMH	
L032	1-409-193-00	COIL 3.58MHZ TRAP	
L033	1-407-705-00	MICRO INDUCTOR 100UH	
L034	1-407-687-00	MICRO INDUCTOR 3.3UH	
L035	1-407-705-00	MICRO INDUCTOR 100UH	
L036	1-408-398-00	MICRO INDUCTOR 1.2UH	
L037	1-408-398-00	MICRO INDUCTOR 1.2UH	
L039	1-408-454-11	MICRO INDUCTOR 100UH	
L040	1-408-454-11	MICRO INDUCTOR 100UH	

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KV-1746R

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
<u>CONNECTOR</u>				R012	1-246-521-00	CARBON	100K 1% 1/4W
ME1	♣:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R013	1-246-521-00	CARBON	100K 5% 1/4W
ME2	♣:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		R014	1-246-521-00	CARBON	100K 5% 1/4W
ME3	♣:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R015	1-246-528-00	CARBON	200K 5% 1/4W
ME7	♣:1-508-786-00	2P PLUG (M)		R016	1-246-528-00	CARBON	200K 5% 1/4W
ME8	♣:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P		R017	1-246-528-00	CARBON	200K 5% 1/4W
ME9	♣:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P		R018	1-246-528-00	CARBON	200K 5% 1/4W
ME12	♣:1-560-127-00	PLUG, CONNECTOR (2.5MM) 7P		R019	1-246-528-00	CARBON	200K 1% 1/4W
ME13	♣:1-560-129-00	PLUG, CONNECTOR (2.5MM) 9P		R020	1-246-528-00	CARBON	200K 5% 1/4W
<u>TRANSISTOR</u>				R021	1-246-528-00	CARBON	200K 5% 1/4W
Q001	=>8-729-117-54	TRANSISTOR 2SA1175		R022	1-246-528-00	CARBON	200K 5% 1/4W
Q002	8-729-663-47	TRANSISTOR 2SC1364		R023	1-246-528-00	CARBON	200K 1% 1/4W
Q003	=>8-729-117-54	TRANSISTOR 2SA1175		R024	1-246-528-00	CARBON	200K 1% 1/4W
Q004	8-729-663-47	TRANSISTOR 2SC1364		R025	1-246-490-00	CARBON	5.1K 5% 1/4W
Q005	8-729-663-47	TRANSISTOR 2SC1364		R026	1-246-521-00	CARBON	100K 1% 1/4W
Q006	8-729-663-47	TRANSISTOR 2SC1364		R027	1-246-521-00	CARBON	100K 1% 1/4W
Q007	8-729-663-47	TRANSISTOR 2SC1364		R028	1-246-521-00	CARBON	100K 5% 1/4W
Q008	8-729-663-47	TRANSISTOR 2SC1364		R029	1-246-521-00	CARBON	100K 5% 1/4W
Q009	8-729-173-37	TRANSISTOR 2SA733A		R030	1-246-528-00	CARBON	200K 5% 1/4W
Q031	8-729-663-47	TRANSISTOR 2SC1364		R031	1-246-509-00	CARBON	33K 5% 1/4W
Q032	8-729-663-47	TRANSISTOR 2SC1364		R032	1-246-487-00	CARBON	3.9K 5% 1/4W
Q033	=>8-729-117-54	TRANSISTOR 2SA1175		R033	1-246-485-00	CARBON	3.3K 5% 1/4W
Q034	8-729-663-47	TRANSISTOR 2SC1364		R034	1-246-485-00	CARBON	3.3K 5% 1/4W
Q035	=>8-729-117-54	TRANSISTOR 2SA1175		R035	1-246-459-00	CARBON	270 5% 1/4W
Q036	8-729-139-04	TRANSISTOR 2N3904		R036	1-246-481-00	CARBON	2.2K 5% 1/4W
Q038	=>8-729-117-54	TRANSISTOR 2SA1175		R037	1-246-497-00	CARBON	10K 5% 1/4W
Q039	=>8-729-117-54	TRANSISTOR 2SA1175		R038	1-246-497-00	CARBON	10K 5% 1/4W
Q040	=>8-729-117-54	TRANSISTOR 2SA1175		R039	1-246-497-00	CARBON	10K 5% 1/4W
Q041	8-729-663-47	TRANSISTOR 2SC1364		R040	1-246-481-00	CARBON	2.2K 5% 1/4W
Q043	8-729-663-47	TRANSISTOR 2SC1364		R042	1-246-497-00	CARBON	10K 5% 1/4W
Q044	8-729-663-47	TRANSISTOR 2SC1364		R043	1-246-485-00	CARBON	3.3K 5% 1/4W
Q045	=>8-729-117-54	TRANSISTOR 2SA1175		R044	1-246-521-00	CARBON	100K 5% 1/4W
Q047	8-729-663-47	TRANSISTOR 2SC1364		R045	1-246-533-00	CARBON	330K 5% 1/4W
Q048	8-729-663-47	TRANSISTOR 2SC1364		R046	1-246-509-00	CARBON	33K 5% 1/4W
Q050	8-729-309-06	TRANSISTOR 2SC1890A		R047	1-246-497-00	CARBON	10K 5% 1/4W
Q051	8-729-213-11	TRANSISTOR 2SC2230A		R048	1-246-505-00	CARBON	22K 5% 1/4W
Q052	8-729-663-47	TRANSISTOR 2SC1364		R049	1-246-497-00	CARBON	10K 5% 1/4W
Q053	8-729-663-47	TRANSISTOR 2SC1364		R050	1-246-497-00	CARBON	10K 5% 1/4W
Q054	8-729-663-47	TRANSISTOR 2SC1364		R051	1-206-696-00	METAL	22K 5% 2W F
<u>RESISTOR</u>				R052	1-246-489-00	CARBON	4.7K 5% 1/4W
R001	1-246-532-00	CARBON	300K 5% 1/4W	R053	1-246-509-00	CARBON	33K 5% 1/4W
R002	1-246-531-00	CARBON	270K 5% 1/4W	R055	1-246-509-00	CARBON	33K 5% 1/4W
R003	1-246-493-00	CARBON	6.8K 5% 1/4W	R056	1-246-509-00	CARBON	33K 5% 1/4W
R004	1-246-490-00	CARBON	5.1K 5% 1/4W	R057	1-246-535-00	CARBON	390K 5% 1/4W
R005	1-246-532-00	CARBON	300K 5% 1/4W	R058	1-246-521-00	CARBON	100K 5% 1/4W
R006	1-246-521-00	CARBON	100K 5% 1/4W	R059	1-246-461-00	CARBON	330 5% 1/4W
R007	1-246-521-00	CARBON	100K 5% 1/4W	R060	1-246-489-00	CARBON	4.7K 5% 1/4W
R008	1-246-545-00	CARBON	1M 5% 1/4W	R061	1-246-489-00	CARBON	4.7K 5% 1/4W
R010	1-246-479-00	CARBON	1.8K 5% 1/4W	R062	1-246-505-00	CARBON	22K 5% 1/4W
R011	1-246-472-00	CARBON	910 5% 1/4W	R063	1-246-489-00	CARBON	4.7K 5% 1/4W
				R064	1-246-521-00	CARBON	100K 5% 1/4W
				R065	1-246-521-00	CARBON	100K 5% 1/4W
				R066	1-246-505-00	CARBON	22K 5% 1/4W

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ME

C

KV-1746R

Ref.No	Part No	Description	Remark
R067	1-246-481-00	CARBON 2.2K 5% 1/4W	
R068	1-246-473-00	CARBON 1K 5% 1/4W	
R069	1-246-481-00	CARBON 2.2K 5% 1/4W	
R070	1-246-497-00	CARBON 10K 5% 1/4W	
R071	1-246-505-00	CARBON 22K 5% 1/4W	
R072	1-246-497-00	CARBON 10K 5% 1/4W	
R073	1-246-473-00	CARBON 1K 5% 1/4W	
R074	1-246-529-00	CARBON 220K 5% 1/4W	
R075	1-246-497-00	CARBON 10K 5% 1/4W	
R076	1-246-473-00	CARBON 1K 5% 1/4W	
R077	1-246-497-00	CARBON 10K 5% 1/4W	
R078	1-246-497-00	CARBON 10K 5% 1/4W	
R079	1-246-497-00	CARBON 10K 5% 1/4W	
R080	1-246-497-00	CARBON 10K 5% 1/4W	
R081	1-246-497-00	CARBON 10K 5% 1/4W	
R082	1-246-497-00	CARBON 10K 5% 1/4W	
R083	1-246-519-00	CARBON 82K 5% 1/4W	
R084	1-246-497-00	CARBON 10K 5% 1/4W	
R085	1-214-596-00	METAL 39K 5% 2W	F
R086	1-244-914-00	CARBON 51K 5% 1/2W	
R087	1-246-529-00	CARBON 220K 5% 1/4W	
R088	1-246-473-00	CARBON 1K 5% 1/4W	
R089	1-246-473-00	CARBON 1K 5% 1/4W	
R092	1-246-499-00	CARBON 12K 5% 1/4W	
R094	1-246-507-00	CARBON 27K 5% 1/4W	
R095	1-246-519-00	CARBON 82K 5% 1/4W	
R096	1-246-497-00	CARBON 10K 5% 1/4W	
R097	1-246-513-00	CARBON 47K 5% 1/4W	
R098	1-246-473-00	CARBON 1K 5% 1/4W	
R100	1-246-537-00	CARBON 470K 5% 1/4W	
R101	1-246-509-00	CARBON 33K 5% 1/4W	
R102	1-246-497-00	CARBON 10K 5% 1/4W	
R103	1-246-481-00	CARBON 2.2K 5% 1/4W	
R104	1-246-509-00	CARBON 33K 5% 1/4W	
R105	1-246-509-00	CARBON 33K 5% 1/4W	
R106	1-246-516-00	CARBON 62K 5% 1/4W	
R107	1-246-497-00	CARBON 10K 5% 1/4W	
R108	1-246-481-00	CARBON 2.2K 5% 1/4W	
R109	1-246-481-00	CARBON 2.2K 5% 1/4W	
R110	1-246-497-00	CARBON 10K 5% 1/4W	
R111	1-246-509-00	CARBON 33K 5% 1/4W	
R112	1-246-525-00	CARBON 150K 5% 1/4W	
R118	1-246-473-00	CARBON 1K 5% 1/4W	
R119	1-246-509-00	CARBON 33K 5% 1/4W	
R120	1-246-473-00	CARBON 1K 5% 1/4W	
R121	1-206-664-00	METAL 1K 5% 2W	F
R122	1-205-662-00	WIREWOUND 7.5K 5% 7W	
R123	1-213-131-00	METAL 100 5% 1W	F
R124	1-246-497-00	CARBON 10K 5% 1/4W	
R125	1-246-465-00	CARBON 470 5% 1/4W	
R127	1-246-516-00	CARBON 62K 5% 1/4W	
R128	1-246-449-00	CARBON 100 5% 1/4W	
R129	1-246-473-00	CARBON 1K 5% 1/4W	

Ref.No	Part No	Description	Remark
R131	1-246-493-00	CARBON 6.8K 5% 1/4W	
R132	1-246-504-00	CARBON 20K 5% 1/4W	
R133	1-246-521-00	CARBON 100K 5% 1/4W	
R134	1-246-488-00	CARBON 4.3K 5% 1/4W	
R136	1-246-483-00	CARBON 2.7K 5% 1/4W	
R145	1-246-521-00	CARBON 100K 5% 1/4W	
R147	1-246-537-00	CARBON 470K 5% 1/4W	
R148	1-246-519-00	CARBON 82K 5% 1/4W	
R149	1-246-516-00	CARBON 62K 5% 1/4W	
R150	1-246-521-00	CARBON 100K 5% 1/4W	
R151	1-246-521-00	CARBON 100K 5% 1/4W	
R152	1-246-537-00	CARBON 470K 5% 1/4W	
R153	1-246-473-00	CARBON 1K 5% 1/4W	
R154	1-246-473-00	CARBON 1K 5% 1/4W	
R156	1-246-521-00	CARBON 100K 5% 1/4W	
R160	1-246-509-00	CARBON 33K 5% 1/4W	
R161	1-246-521-00	CARBON 100K 5% 1/4W	
RELAY			
RL001A	1-515-346-00	RELAY	
CRYSTAL			
X001	1-527-532-00	OSCILLATOR, CERAMIC	

♣:A-1330-311-A C BOARD, COMPLETE			

1-526-645-00 SOCKET, PICTURE TUBE			
♣:1-602-721-21 PC BOARD, C			
CONNECTOR			
C1	♣:1-508-765-00	3P PLUG (M)	
C2	♣:1-506-371-00	2P PLUG (L)	
CAPACITOR			
C701	1-123-356-00	ELECT 10MF 20% 50V	
C702	1-129-737-00	FILM 0.047MF 20% 630V	
C703	1-102-249-00	CERAMIC 680PF 20% 2KV	
C704	1-102-971-00	CERAMIC 82P 5% 50V	
COIL			
L701	1-407-704-00	MICRO INDUCTOR 82UH	
L702	1-407-704-00	MICRO INDUCTOR 82UH	
L703	1-407-704-00	MICRO INDUCTOR 82UH	
L704	1-407-708-00	MICRO INDUCTOR 180UH	
L705	1-421-393-00	COIL, FERRITE CHOKE	
TRANSISTOR			
Q701	8-729-322-78	TRANSISTOR 2SC2278	
Q702	8-729-322-78	TRANSISTOR 2SC2278	
Q703	8-729-322-78	TRANSISTOR 2SC2278	

NOTE:

The components identified by shading and mark ♣ are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ uF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

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Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
<u>RESISTOR</u>				<u>TRANSISTOR</u>			
R701	1-246-456-00	CARBON 200 5% 1/4W		C106	1-108-389-00	MYLAR 0.1MF 10% 100V	
R702	1-246-488-00	CARBON 4.3K 5% 1/4W		C108	1-108-385-00	MYLAR 0.047MF 10% 100V	
R703	1-206-692-00	METAL 15K 5% 2W	F	C109	1-108-387-00	MYLAR 0.068MF 10% 100V	
R704	1-246-488-00	CARBON 4.3K 5% 1/4W		<u>TRANSISTOR</u>			
R705	1-246-456-00	CARBON 200 5% 1/4W		Q101	8-729-663-47	TRANSISTOR 2SC1364	
R706	1-206-692-00	METAL 15K 5% 2W	F	<u>RESISTOR</u>			
R707	1-246-460-00	CARBON 300 5% 1/4W		R101	1-246-509-00	CARBON 33K 5% 1/4W	
R708	1-246-488-00	CARBON 4.3K 5% 1/4W		R102	1-246-533-00	CARBON 330K 5% 1/4W	
R709	1-206-692-00	METAL 15K 5% 2W	F	R103	1-246-481-00	CARBON 2.2K 5% 1/4W	
R710	1-202-824-00	COMPOSITION 3.3K 1/2W		R104	1-246-465-00	CARBON 470 5% 1/4W	
R711	1-202-837-51	COMPOSITION 82K 1/2W		<u>CONNECTOR</u>			
R713	1-202-824-00	COMPOSITION 3.3K 1/2W		S1	1-560-127-00	PLUG, CONNECTOR (2.5MM) 7P	
R714	1-202-814-51	COMPOSITION 33K 1/2W		*****			
R715	1-202-815-51	COMPOSITION 47K 1/2W		<u>MISCELLANEOUS</u>			
R716	1-202-824-00	COMPOSITION 3.3K 1/2W		*****			
R717	1-202-719-00	COMPOSITION 1M 10% 1/2W		Δ 1-226-733-00	RES ASSY, HIGH-VOLTAGE		
R718	1-202-549-00	COMPOSITION 100 10% 1/2W		Δ 1-452-214-00	CRT NECK ASSY (H TYPE)		
R719	1-202-719-00	COMPOSITION 1M 10% 1/2W		1-452-032-00	MAGNET, DISC 10mm φ		
R720	1-202-843-51	COMPOSITION 270K 1/2W		1-452-094-00	MAGNET, DISK TYPE 15mm φ		
R721	1-202-720-51	COMPOSITION 1.2M 10% 1/2W		1-452-146-00	MAGNET, BMC		
R722	1-202-839-51	COMPOSITION 120K 1/2W		Δ 1-463-264-00	TUNER (BT-852)		
R723	1-202-842-51	COMPOSITION 220K 1/2W		1-527-476-00	OSCILLATOR, CERAMIC		
R724	1-246-473-00	CARBON 1K 5% 1/4W		1-536-401-XX	C-TYPE 1L1 LUG TERMINAL STRIP		
<u>VARIABLE RESISTOR</u>				Δ 1-536-584-00	TERMINAL BOARD ASSY, ANTENNA		
RV701	1-226-209-00	RES, ADJ, CARBON 3.3K		Δ 1-551-249-00	CABLE, P-P		
RV702	1-222-515-12	RES, ADJ, CARBON 330		Δ 1-551-454-21	CORD, POWER		
RV703	1-226-209-00	RES, ADJ, CARBON 3.3K		Δ 1-551-607-41	CONNECTOR ASSY, MINI (3P)		
RV704	1-222-515-31	RES, ADJ, CARBON 330		Δ 1-551-653-00	FEEDER, SOLDERLESS TERMINAL		
RV705	1-226-209-00	RES, ADJ, CARBON 3.3K		Δ 1-551-655-00	CONNECTOR, ASSY (5P)		
RV706	1-226-063-00	RES, ADJ, CARBON 2.2M		Δ 1-551-793-00	CONNECTOR ASSY (L) 2P		
RV707	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M		Δ 1-551-919-00	CONNECTOR ASSY 3P		
<u>SPARK GAP</u>				1-551-941-00	CONNECTOR ASSY (2.5MM) 9P		
SG701	1-519-063-XX	DISCHARGING GAP		Δ 1-555-032-00	CONNECTOR ASSY, MINIATURE 3P		
SG702	1-519-063-XX	DISCHARGING GAP		Δ 1-555-190-61	CONNECTOR, MINIATURE 2P		
SG703	1-519-063-XX	DISCHARGING GAP		Δ 1-555-190-71	CONNECTOR, MINIATURE 2P		
SG704	1-519-063-XX	DISCHARGING GAP		Δ 1-555-344-00	CONNECTOR ASSY (2.5MM) 7P		
SG705	1-519-063-XX	DISCHARGING GAP		Δ 1-555-439-00	CONNECTOR ASSY (LARGE) 3P		
SG706	1-519-063-XX	DISCHARGING GAP		1-555-445-11	CORD, POWER		
*****				Δ 1-555-470-00	CONNECTOR ASSY (2.5MM) 8P		
Δ 1-600-601-00	S BOARD			1-555-619-00	CONNECTOR ASSY (2.5MM) 5P		
*****				1-555-651-00	CONNECTOR ASSY (2.5MM) 6P		
<u>CAPACITOR</u>				Δ 1-555-653-00	CONNECTOR ASSY (2.5MM) 4P		
C101	1-123-317-00	ELECT 22MF 20% 16V		Δ 1-555-688-00	CONNECTOR ASSY, MINIATURE 4P		
C102	1-123-329-00	ELECT 10MF 20% 25V		Δ 1-555-754-00	CONNECTOR ASSY (2.5MM) 3P		
C103	1-123-329-00	ELECT 10MF 20% 25V		Δ 1-555-755-00	CONNECTOR ASSY (2.5MM) 3P		
C104	1-123-318-00	ELECT 33MF 20% 16V		1-561-335-00	CONNECTOR, ANTENNA (EAC-31)		
C105	1-123-318-00	ELECT 33MF 20% 16V					

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked " Δ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μF, PF : μμF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μH

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Ref.No	Part No	Description	Remark
C901	△ 1-102-327-00	CAP, CERAMIC 330PF 1.5KV	
J901A	1-507-372-00	JM-35 DOUBLE JACK	
J901B	1-507-372-00	JM-35 DOUBLE JACK	
L901	△ 1-425-894-51	COIL DEGAUSSING	
L902	△ 1-425-894-51	COIL DEGAUSSING	
L903	1-407-365-00	COIL, CHOKE (HIGH FREQUENCY)	
L904	1-408-349-00	COIL, CHOKE	
L905	△ 1-451-202-00	DEFLECTION YOKE (SY-75B)	
Q901	8-729-286-90	TRANSISTOR 2SD869	
R901	△ 1-217-605-00	RES, WIREWOUND 2.2 (10W)	
R902	1-205-608-00	RES, CEMENT 180 (20W)	
S901	1-553-262-00	SWITCH, PUSH (POWER SWITCH)	
SP901	1-502-766-00	SPEAKER	
V901	△ 8-738-501-05	PICTURE TUBE (470KXB22)	

ACCESSORIES AND PACKING MATERIALS

Part No	Description	Remark
Y-2063-103-0	AN-15 LOOP ANTENNA	
Y-2201-611-0	OVERALL ASSY, AN-16	
1-504-034-32	EARPHONE, MAGNETIC (ME-20B)	
1-528-068-11	DRY BATTERY, CARBON-ZINC	
3-701-620-00	BAG, POLYETHYLENE (RM703)	
4-329-149-01	LABEL (B), INDICATOR	
4-348-138-00	INDIVIDUAL CARTON	
4-349-950-00	BAG, POLYETHYLENE	
4-350-956-00	CUSHION (LEFT UPPER)	
4-350-957-00	CUSHION (RIGHT UPPER)	
4-350-958-00	CUSHION (LEFT LOWER)	
4-350-959-00	CUSHION (RIGHT LOWER)	
4-491-213-21	INSTRUCTION	
4-491-513-00	SCHEMATIC DIAGRAM (B2) (SONAM)	
4-493-550-21	MANUAL, INSTRUCTION	
7-822-282-01	IBM, CARD (WHITE)	
7-822-282-02	IBM, CARD (PINK)	
7-822-282-03	IBM, CARD (YELLOW)	

NOTE:

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked " & " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

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Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
▲:1-603-976-00		N BOARD *****		C209	1-102-121-00	CERAMIC 0.0022MF	10% 50V
1-232-004-00		COMPOSITION CIRCUIT BLOCK		C211	1-108-389-00	MYLAR 0.1MF	10% 100V
<u>CAPACITOR</u>				C212	1-123-353-00	ELECT 2.2MF	20% 50V
C1	1-123-617-00	ELECT 10MF 20% 16V		C213	1-108-386-00	MYLAR 0.056MF	10% 100V
C2	1-123-617-00	ELECT 10MF 20% 16V		C215	1-102-503-00	CERAMIC 3PF	0.25PF 50V
C3	1-123-617-00	ELECT 10MF 20% 16V		C216	1-102-503-00	CERAMIC 3PF	0.25PF 50V
C4	1-161-019-00	CERAMIC 0.033MF 10% 25V		C217	1-102-963-00	CERAMIC 33PF	5% 50V
C5	1-108-567-00	MYLAR 0.0033MF 5% 50V		C218	1-161-282-00	CERAMIC 18PF	5% 50V
<u>DIODE</u>				C219	1-102-121-00	CERAMIC 0.0022MF	10% 50V
D1	8-719-100-33	DIODE PH302A		C220	1-102-074-00	CERAMIC 0.001MF	10% 50V
<u>IC</u>				C221	1-123-356-00	ELECT 10MF	20% 16V
IC1	8-759-113-73	IC UPC1373H		C222	1-102-121-00	CERAMIC 0.0022MF	10% 50V
<u>COIL</u>				C225	1-101-006-00	CERAMIC 0.047MF	50V
L1	1-404-310-00	COIL		C226	1-161-294-00	CERAMIC 12PF	5% 50V
*****				C228	1-123-352-00	ELECT 1MF	20% 50V
▲:A-1295-473-A		A BOARD, COMPLETE *****		C229	1-102-129-00	CERAMIC 0.01MF	10% 50V
▲:1-508-915-11		PLUG, 1P		C230	1-102-114-00	CERAMIC 470PF	10% 50V
▲:1-509-832-00		CONNECTOR ASSY, 1P		C231	1-108-379-00	MYLAR 0.015MF	10% 100V
▲:1-509-887-00		CONNECTOR ASSY 1P		C232	1-123-351-00	ELECT 0.47MF	20% 50V
1-517-072-00		LAMP HOLDER		C233	1-123-323-00	ELECT 470MF	20% 16V
▲:1-533-146-00		HOLDER, FUSE		C234	1-123-356-00	ELECT 10MF	20% 16V
▲:1-555-020-00		CONNECTOR ASSY, MINIATURE 3P		C235	1-123-351-00	ELECT 0.47MF	20% 50V
▲:4-334-250-00		CASE, SHIELD (MAIN)		C236	1-102-820-00	CERAMIC 330PF	5% 50V
▲:4-334-251-00		LID, UPPER, SHIELD CASE		C237	1-102-244-00	CERAMIC 220PF	10% 500V
▲:4-334-252-00		LID, REAR, SHIELD CASE		C238	1-123-026-00	ELECT 2.2MF	160V
▲:4-342-401-00		HEAT SHINK, V OUT		C239	1-123-352-00	ELECT 1MF	20% 50V
<u>CONNECTOR</u>				C240	1-102-496-00	CERAMIC 82PF	5% 50V
A1	▲:1-506-348-XX	3P PLUG (L)		C241	1-102-518-00	CERAMIC 33PF	5% 50V
A2	▲:1-508-765-00	3P PLUG (M)		C242	1-102-494-00	CERAMIC 68PF	5% 50V
A3	▲:1-508-786-00	2P PLUG (M)		C243	1-123-381-00	ELECT 2.2MF	20% 100V
A5	▲:1-506-371-00	2P PLUG (L)		C245	1-161-279-00	CERAMIC 10PF	5% 50V
A6	▲:1-508-765-00	3P PLUG (M)		C246	1-102-129-00	CERAMIC 0.01MF	10% 50V
A7	▲:1-508-766-00	4P PLUG (M)		C247	1-108-369-00	MYLAR 0.0022MF	10% 100V
A10	▲:1-508-765-00	3P PLUG (M)		C249	1-123-319-00	ELECT 47MF	20% 16V
A14	▲:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		C250	1-101-845-00	CERAMIC 0.001MF	500V
A15	▲:1-560-128-00	PLUG, CONNECTOR (2.5MM PITCH)		C251	1-102-074-00	CERAMIC 0.001MF	10% 50V
A23	▲:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		C302	1-161-271-00	CERAMIC 100PF	5% 50V
<u>CAPACITOR</u>				C303	1-161-272-00	CERAMIC 120PF	5% 50V
C201	1-101-888-00	CERAMIC 68PF 5% 50V		C304	1-121-806-00	ELECT 10MF	16V
C205	1-102-121-00	CERAMIC 0.0022MF 10% 50V		C308	1-101-004-00	CERAMIC 0.01MF	50V
C206	1-102-121-00	CERAMIC 0.0022MF 10% 50V		C309	1-102-820-00	CERAMIC 330PF	5% 50V
C207	1-161-383-00	CERAMIC 0.0047MF 10% 50V		C310	1-123-351-00	ELECT 0.47MF	20% 50V
C208	1-102-121-00	CERAMIC 0.0022MF 10% 50V		C311	1-108-370-00	MYLAR 0.0027MF	10% 100V
<u>RESISTORS</u>				C312	1-123-586-00	ELECT 0.1MF	20% 50V
<u>COILS</u>				C313	1-108-385-00	MYLAR 0.047MF	10% 100V
<u>ALL RESISTORS</u>				C314	1-123-356-00	ELECT 10MF	20% 16V
<u>ALL CAPACITORS</u>				C315	1-123-354-00	ELECT 3.3MF	20% 50V
<u>ALL COILS</u>				C316	1-102-963-00	CERAMIC 33PF	5% 50V
<u>ALL RESISTORS</u>				C317	1-102-822-00	CERAMIC 390PF	5% 50V
<u>ALL CAPACITORS</u>				C318	1-123-447-00	ELECT 0.22MF	20% 50V
<u>ALL COILS</u>				C319	1-123-328-00	ELECT 4.7MF	20% 25V
<u>ALL RESISTORS</u>				C320	1-123-447-00	ELECT 0.22MF	20% 50V
<u>ALL CAPACITORS</u>				C321	1-101-888-00	CERAMIC 68PF	5% 50V

NOTE:

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

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• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ P

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

A

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Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C323	1-102-947-00	CERAMIC 10PF	5% 50V	C554	1-123-351-00	ELECT 0.47MF	20% 50V
C324	1-102-959-00	CERAMIC 22PF	5% 50V	C555	1-123-344-00	ELECT 47MF	20% 35V
C326	1-123-321-00	ELECT 220MF	20% 16V	C556	1-123-351-00	ELECT 0.47MF	20% 50V
C327	1-161-271-00	CERAMIC 100PF	5% 50V	C558	1-123-354-00	ELECT 3.3MF	20% 50V
C328	1-161-316-00	CERAMIC 270PF	10% 50V	C560	1-102-129-00	CERAMIC 0.01MF	10% 50V
C329	1-123-356-00	ELECT 10MF	20% 16V	C561	1-102-074-00	CERAMIC 0.001MF	10% 50V
C330	1-102-947-00	CERAMIC 10PF	5% 50V	C575	1-123-328-00	ELECT 4.7MF	20% 25V
C331	1-102-947-00	CERAMIC 10PF	5% 50V	C576	1-123-351-00	ELECT 0.47MF	20% 50V
C501	1-123-352-00	ELECT 1MF	20% 50V	C577	1-108-387-00	MYLAR 0.068MF	10% 100V
C502	1-161-003-00	CERAMIC 0.0015MF	10% 25V	C578	1-123-352-00	ELECT 1MF	20% 50V
C505	1-123-354-00	ELECT 3.3MF	20% 50V	C601	1-108-745-00	MYLAR 0.22MF	20% 125V
C506	1-108-374-00	MYLAR 0.0056MF	10% 100V	C605	1-125-215-00	ELECT (BLOCK) 560MF	200V
C507	1-161-063-00	CERAMIC 0.1MF	10% 50V	C606	1-123-355-00	ELECT 4.7MF	20% 50V
C508	1-130-203-00	FILM 0.01MF	5% 50V	C607	1-121-246-00	ELECT 4.7MF	160V
C509	1-108-373-00	MYLAR 0.0047MF	10% 100V	C608	1-102-030-00	CERAMIC 330PF	10% 500V
C510	1-161-018-00	CERAMIC 0.027MF	10% 25V	C609	1-123-026-00	ELECT 2.2MF	160V
C511	1-123-353-00	ELECT 2.2MF	20% 50V				
C512	1-123-351-00	ELECT 0.47MF	20% 50V				
C514	1-123-356-00	ELECT 10MF	20% 16V				
C515	1-161-383-00	CERAMIC 0.0047MF	10% 50V				
C516	1-102-820-00	CERAMIC 330PF	5% 50V				
C517	1-102-030-00	CERAMIC 330PF	10% 500V				
C518	1-108-689-11	MYLAR 0.0056MF	10% 200V				
C519	1-121-757-00	ELECT 33MF	160V				
C520	1-123-333-00	ELECT 100MF	20% 25V				
C521	1-123-356-00	ELECT 10MF	20% 16V				
C523	1-108-384-00	MYLAR 0.039MF	10% 100V				
C524	1-131-361-00	TANTALUM 2.2MF	20% 20V				
C525	1-123-323-00	ELECT 470MF	20% 16V				
C526	1-131-197-00	TANTALUM 3.3MF	10% 16V				
C527	1-108-383-00	MYLAR 0.033MF	10% 100V				
C528	1-108-383-00	MYLAR 0.033MF	10% 100V				
C529	1-123-344-00	ELECT 47MF	20% 35V				
C530	1-102-244-00	CERAMIC 220PF	10% 500V				
C531	1-123-587-00	ELECT 560MF	10% 25V				
C532	1-123-584-00	ELECT 22MF	10% 16V				
C533	1-123-330-00	ELECT 22MF	20% 25V				
C534	1-123-003-00	ELECT 1MF	250V				
C535	1-130-548-51	FILM 0.3MF	5% 400V				
C536	1-102-212-00	CERAMIC 820PF	10% 500V				
C537	1-123-357-00	ELECT 22MF	20% 50V				
C538	1-123-286-00	ELECT 0.33MF	20% 50V				
C539	1-123-346-00	ELECT 220MF	20% 35V				
C540	1-102-212-00	CERAMIC 820PF	10% 500V				
C541	1-102-212-00	CERAMIC 820PF	10% 500V				
C542	1-123-335-00	ELECT 330MF	20% 25V				
C544	1-123-385-00	ELECT 22MF	20% 100V				
C545	1-130-546-00	FILM 9800PF	3% 1.2KV				
C546	1-108-963-00	MYLAR 0.22MF	10% 200V				
C548	1-102-223-00	CERAMIC 0.0047MF	20% 1.6KV				
C549	1-121-246-00	ELECT 4.7MF	160V				
C550	1-102-973-00	CERAMIC 100PF	5% 50V				
C553	1-102-030-00	CERAMIC 330PF	10% 500V				

NOTE:

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• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked " Δ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

• MF : μ F, PF : μ PF

RESISTORS

• All resistors are in ohms
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COILS

• MMH : mH, UH : μ H

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Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
<u>CONNECTOR</u>							
DY1	♣:1-506-348-XX	3P PLUG (L)		Q301	8-729-663-47	TRANSISTOR 2SC1364	
DY2	♣:1-506-348-XX	3P PLUG (L)		Q502	8-729-326-10	TRANSISTOR 2SC2610BK	
<u>FUSE</u>				Q503	8-729-177-43	TRANSISTOR 2SD774	
F601	♣:1-532-272-XX	FUSE 5A		Q505	8-729-663-47	TRANSISTOR 2SC1364	
F602	♣:1-532-570-00	FUSE, GLASS TUBE 1.25A		Q506	=>8-729-117-54	TRANSISTOR 2SA1175	
<u>IC</u>				<u>RESISTOR</u>			
IC201	8-759-600-05	IC CX-555A		R200	1-246-521-00	CARBON 100K 5% 1/4W	
IC202	8-759-600-43	IC CX-843A		R201	1-246-431-00	CARBON 18 5% 1/4W	
IC301	8-759-105-56	IC CX-556		R203	1-246-422-00	CARBON 7.5 5% 1/4W	
IC501	8-759-100-07	IC CX-557S		R208	1-246-481-00	CARBON 2.2K 5% 1/4W	
IC502	8-759-113-68	IC UPC1368H		R209	1-246-497-00	CARBON 10K 5% 1/4W	
IC601	♣:1-231-705-00	MODULE, POWER		R210	1-246-463-00	CARBON 390 5% 1/4W	
<u>JACK</u>				R211	1-246-469-00	CARBON 680 5% 1/4W	
J201	♣:1-526-575-00	SOCKET, PLUG		R212	1-211-602-00	CARBON 33 5% 1/2W F	
<u>COIL</u>				R214	1-246-457-00	CARBON 220 5% 1/4W	
L201	1-407-694-00	MICRO INDUCTOR 12UH		R215	1-246-461-00	CARBON 330 5% 1/4W	
L202	1-407-687-00	MICRO INDUCTOR 3.3UH		R216	1-246-483-00	CARBON 2.7K 5% 1/4W	
L203	1-407-189-XX	MICRO INDUCTOR 8.2UH		R217	1-246-519-00	CARBON 82K 5% 1/4W	
L204	1-425-613-00	COIL, AIR-CORE, QF TYPE		R218	1-246-473-00	CARBON 1K 5% 1/4W	
L205	1-407-701-00	MICRO INDUCTOR 47UH		R220	1-246-517-00	CARBON 68K 5% 1/4W	
L302	1-407-699-00	MICRO INDUCTOR 33UH		R221	1-246-469-00	CARBON 680 5% 1/4W	
L303	1-408-163-00	MICRO INDUCTOR 5.6MMH		R222	1-246-473-00	CARBON 1K 5% 1/4W	
L304	1-407-166-XX	MICRO INDUCTOR 56UH		R223	1-246-473-00	CARBON 1K 5% 1/4W	
L305	1-407-698-00	MICRO INDUCTOR 27UH		R226	1-246-481-00	CARBON 2.2K 5% 1/4W	
L501	1-407-693-00	MICRO INDUCTOR 10UH		R227	1-246-507-00	CARBON 27K 5% 1/4W	
L502	♣:1-459-316-00	COIL, FERRITE (HLC)		R228	1-246-483-00	CARBON 2.7K 5% 1/4W	
L503	♣:1-459-315-00	COIL, VAR, FERRITE (HWC)		R229	1-246-473-00	CARBON 1K 5% 1/4W	
L504	1-407-501-31	MICRO INDUCTOR 5.6MMH		R230	1-246-522-00	CARBON 110K 5% 1/4W	
L505	1-407-699-00	MICRO INDUCTOR 33UH		R231	1-246-497-00	CARBON 10K 5% 1/4W	
L506	1-408-348-00	MICRO INDUCTOR 39UH		R232	1-217-395-00	FUSIBLE 47 5% 1/4W F	
L508	1-407-202-XX	MICRO INDUCTOR 4.7MMH		R233	1-246-449-00	CARBON 100 5% 1/4W	
L509	1-408-348-00	MICRO INDUCTOR 39UH		R234	1-246-459-00	CARBON 270 5% 1/4W	
L514	1-407-494-00	MICRO INDUCTOR 1.5MMH		R235	1-246-451-00	CARBON 120 5% 1/4W	
L601	♣:1-408-225-00	MICRO INDUCTOR 3.3UH		R236	1-246-481-00	CARBON 2.2K 5% 1/4W	
L602	♣:1-408-225-00	MICRO INDUCTOR 3.3UH		R237	1-211-421-00	CARBON 39 5% 1/8W F	
<u>NEON LAMP</u>				R239	1-246-489-00	CARBON 4.7K 5% 1/4W	
NL501	1-519-108-XX	LAMP, NEON ASSY		R240	1-246-485-00	CARBON 3.3K 5% 1/4W	
NL601	1-519-108-XX	LAMP, NEON ASSY		R241	1-246-489-00	CARBON 4.7K 5% 1/4W	
<u>TRANSISTOR</u>				R243	1-212-373-00	METAL 12 5% 1W F	
Q202	8-729-663-47	TRANSISTOR 2SC1364		R245	1-246-521-00	CARBON 100K 5% 1/4W	
Q203	=>8-729-316-16	TRANSISTOR 2SC1061		R246	1-211-602-00	CARBON 33 5% 1/2W F	
Q204	8-729-309-06	TRANSISTOR 2SC1890A		R247	1-246-473-00	CARBON 1K 5% 1/4W	
Q205	8-729-306-92	TRANSISTOR 2SD669A		R249	1-246-473-00	CARBON 1K 5% 1/4W	
Q206	8-729-304-92	TRANSISTOR 2SB649A		R250	1-246-473-00	CARBON 1K 5% 1/4W	
				R301	1-246-477-00	CARBON 1.5K 5% 1/4W	
				R302	1-246-479-00	CARBON 1.8K 5% 1/4W	
				R306	1-246-483-00	CARBON 2.7K 5% 1/4W	
				R307	1-246-443-00	CARBON 56 5% 1/4W	
				R309	1-246-491-00	CARBON 5.6K 5% 1/4W	
				R310	1-246-469-00	CARBON 680 5% 1/4W	

NOTE:

The components identified by shading and mark ♣ are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

A

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- The components identified by **ⓧ** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R311	1-246-505-00	CARBON	22K 5% 1/4W	R545	1-244-855-00	CARBON	180 5% 1/2W
R312	1-246-473-00	CARBON	1K 5% 1/4W	R546	1-247-009-00	CARBON	470 5% 1/4W F
R313	1-246-498-00	CARBON	11K 5% 1/4W	R547	1-246-491-00	CARBON	5.6K 5% 1/4W
R314	1-246-506-00	CARBON	24K 5% 1/4W	R548	1-211-417-00	CARBON	22 5% 1/8W F
R315	1-246-473-00	CARBON	1K 5% 1/4W	R549	1-246-493-00	CARBON	6.8K 5% 1/4W
R316	1-246-477-00	CARBON	1.5K 5% 1/4W	R550	1-206-705-00	METAL	150 5% 3W F
R317	1-246-461-00	CARBON	330 5% 1/4W	R551	1-247-015-00	CARBON	2.2K 5% 1/4W F
R318	1-246-461-00	CARBON	330 5% 1/4W	R552	1-246-513-00	CARBON	47K 5% 1/4W
R320	1-246-469-00	CARBON	680 5% 1/4W	R553	1-246-482-00	CARBON	2.4K 5% 1/2W
R321	1-246-461-00	CARBON	330 5% 1/4W	R554	1-212-361-00	METAL	1.2 5% 1W F
R323	1-246-495-00	CARBON	8.2K 5% 1/4W	R555	1-213-146-00	METAL	1.8K 5% 1W F
R326	1-246-457-00	CARBON	220 5% 1/4W	R556A	1-214-908-00	METAL	62K 1% 1/2W
R327	1-246-479-00	CARBON	1.8K 5% 1/4W	R557	1-246-491-00	CARBON	5.6K 5% 1/4W
R328	1-246-477-00	CARBON	1.5K 5% 1/4W	R558	1-244-899-00	CARBON	12K 5% 1/2W
R331	1-246-487-00	CARBON	3.9K 5% 1/4W	R559	1-246-472-00	CARBON	910 5% 1/4W
R332	1-246-449-00	CARBON	100 5% 1/4W	R560	1-206-678-00	METAL	3.9K 5% 2W F
R333	1-246-467-00	CARBON	560 5% 1/4W	R561	1-213-140-00	METAL	560 5% 1W F
R501	1-246-453-00	CARBON	150 5% 1/4W	R562	1-212-356-00	METAL	0.47 5% 1W F
R502	1-246-537-00	CARBON	470K 5% 1/4W	ⓧR563 ⓧ	1-246-461-00	CARBON	330 5% 1/4W
R506	1-246-511-00	CARBON	39K 5% 1/4W	R570	1-246-461-00	CARBON	330 5% 1/4W
R507	1-246-518-00	CARBON	75K 5% 1/4W	R575	1-246-491-00	CARBON	5.6K 5% 1/4W
R508	1-246-509-00	CARBON	33K 5% 1/4W	R576	1-246-465-00	CARBON	470 5% 1/4W
R509	1-246-523-00	CARBON	120K 5% 1/4W	R577	1-246-533-00	CARBON	330K 5% 1/4W
R510	1-246-487-00	CARBON	3.9K 5% 1/4W	R578	1-246-513-00	CARBON	47K 5% 1/4W
R511	1-246-504-00	CARBON	20K 5% 1/4W	R579	1-246-475-00	CARBON	1.2K 5% 1/4W
R512	1-246-481-00	CARBON	2.2K 5% 1/4W	R581	1-246-485-00	CARBON	3.3K 5% 1/4W
R514	1-246-507-00	CARBON	27K 5% 1/4W	R583	1-246-529-00	CARBON	220K 5% 1/4W
R515	1-246-489-00	CARBON	4.7K 5% 1/4W	R584	1-246-481-00	CARBON	2.2K 5% 1/4W
R516	1-246-479-00	CARBON	1.8K 5% 1/4W	R585	1-211-933-00	CARBON	47 5% 1/8W F
R517	1-246-453-00	CARBON	150 5% 1/4W	R602 ⓧ	1-202-719-00	COMPOSITION	1M 10% 1/2W
R518	1-246-481-00	CARBON	2.2K 5% 1/4W	R603	1-213-163-00	METAL	47K 5% 1W F
R520	1-206-679-00	METAL	4.3K 5% 2W F	R605	1-246-991-00	CARBON	150 5% 1/8W F
R521	1-246-467-00	CARBON	560 5% 1/4W	R606 ⓧ	1-213-156-00	METAL	12K 5% 1W F
R523A	1-246-456-00	CARBON	200 5% 1/4W	R607 ⓧ	1-244-890-00	CARBON	5.1K 5% 1/2W
R524	1-246-493-00	CARBON	6.8K 5% 1/4W	R608	1-247-037-00	CARBON	390 5% 1/8W F
R525	1-246-487-00	CARBON	3.9K 5% 1/4W	R609 ⓧ	1-213-163-00	METAL	47K 5% 1W F
R526	1-246-506-00	CARBON	24K 5% 1/4W	R610	1-246-528-00	CARBON	200K 5% 1/4W
R527	1-246-457-00	CARBON	220 5% 1/4W	VARIABLE RESISTOR			
R528	1-214-144-00	METAL	3.3K 1% 1/4W				
R529	1-214-152-00	METAL	6.8K 1% 1/4W	RV201	1-224-644-XX	RES, ADJ, CARBON	4.7K
R530	1-246-509-00	CARBON	33K 5% 1/4W	RV202	1-224-644-XX	RES, ADJ, CARBON	4.7K
R531	1-246-515-00	CARBON	56K 5% 1/4W	RV301A	1-226-078-00	RES, VAR, CARBON (SNAP IN)	10K
R533	1-246-477-00	CARBON	1.5K 5% 1/4W	RV303	1-226-408-00	RES, VAR, CARBON (SNAP IN)	500
R535	1-244-863-00	CARBON	390 5% 1/2W	RV304	1-224-644-XX	RES, ADJ, CARBON	4.7K
R536	1-246-480-00	CARBON	2K 5% 1/4W	RV305	1-226-075-00	RES, VAR, CARBON (SNAP IN)	10K
R537	1-212-360-00	METAL	1 5% 1W F	RV306	1-226-075-00	RES, VAR, CARBON (SNAP IN)	10K
R538	1-246-473-00	CARBON	1K 5% 1/4W	RV307	1-224-552-00	RES, ADJ, CARBON	470K
R539	1-246-472-00	CARBON	910 5% 1/4W	RV308	1-224-641-XX	RES, ADJ, CARBON	470
R540	1-246-505-00	CARBON	22K 5% 1/4W	RV501	1-226-819-00	RES, ADJ, METAL GLAZE	1K
R541	1-246-482-00	CARBON	2.4K 5% 1/4W	RV502	1-224-967-00	RES, ADJ, CARBON	22K
R542	1-247-586-00	CARBON	3.9K 5% 1/8W	RV503A	1-226-077-00	RES, VAR, CARBON (SNAP IN)	5K
R543B	1-246-443-00	CARBON	56 5% 1/4W	RV504	1-224-644-XX	RES, ADJ, CARBON	4.7K
R544	1-246-472-00	CARBON	910 5% 1/4W				

NOTE:

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Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
<u>SWITCH</u>							
S301	1-553-176-00	SWITCH, ROTARY		NL2223	1-519-154-00	LAMP, NEON	
<u>SPARK GAP</u>				NL2224	1-519-154-00	LAMP, NEON	
SG501	1-519-063-XX	DISCHARGING GAP		NL2225	1-519-154-00	LAMP, NEON	
<u>TRANSFORMER</u>				NL2226	1-519-130-51	LAMP, NEON	
T201	1-409-319-00	COIL, TRAP		<u>SWITCH</u>			
T202	1-409-318-00	COIL, TRAP		S2206	1-553-685-00	SWITCH, PUSH	
T203	1-404-181-00	COIL, VIF		S2207	1-553-685-00	SWITCH, PUSH	
T204	1-404-182-00	COIL, VIF		S2208	1-553-685-00	SWITCH, PUSH	
T205	1-404-181-00	COIL, VIF		S2209	1-553-685-00	SWITCH, PUSH	
T206	1-403-367-00	COIL, SIF		S2210	1-553-685-00	SWITCH, PUSH	
T207	1-403-871-00	SIFT-2 COIL		S2211	1-552-437-00	SWITCH, LEVER	
T208	1-404-179-00	FILTER, HELICAL		S2212	1-552-774-00	SWITCH, PUSH	
T209	1-427-437-00	TRANSFORMER, OUTPUT		S2213	1-552-774-00	SWITCH, PUSH	
T301	1-425-995-00	TRANSFORMER, INPUT		S2214	1-552-774-00	SWITCH, PUSH	
T302	1-409-193-00	COIL 3.58MHZ TRAP		S2215	1-552-774-00	SWITCH, PUSH	
T501	1-437-090-00	HDT		S2216	1-552-774-00	SWITCH, PUSH	
T501	1-437-090-00	HDT		S2217	1-552-774-00	SWITCH, PUSH	
T502	1-421-394-00	TRANSFORMER, FERRITE (HPCT)		S2218	1-552-774-00	SWITCH, PUSH	
T503	1-439-254-00	TRANSFORMER ASSY, FLYBACK		S2219	1-552-774-00	SWITCH, PUSH	
T601	1-421-357-00	TRANSFORMER, LINE FILTER		S2220	1-552-774-00	SWITCH, PUSH	
<u>THERMISTOR</u>				S2221	1-552-774-00	SWITCH, PUSH	
THP601	1-800-686-00	THERMISTOR		S2222	1-552-774-00	SWITCH, PUSH	
<u>CRYSTAL</u>				S2223	1-552-774-00	SWITCH, PUSH	
X301	1-527-396-00	CRYSTAL, OSC		S2224	1-552-774-00	SWITCH, PUSH	
*****				S2225	1-552-774-00	SWITCH, PUSH	
♣:1-604-593-00 M BOARD				*****			
*****				♣:1-604-594-00	M1 BOARD	*****	
<u>DIODE</u>				♣:4-333-118-00	HOLDER (B), LED		
D2209	8-719-815-55	DIODE 1S1555		♣:4-342-714-00	COVER, LED		
D2210	8-719-815-55	DIODE 1S1555		♣:4-350-901-00	HOLDER (M), LED		
<u>NEON LAMP</u>				<u>CAPACITOR</u>			
NL2212	1-519-154-00	LAMP, NEON		C2201	1-123-353-00	ELECT 2.2MF	20% 50V
NL2213	1-519-154-00	LAMP, NEON		C2202	1-123-352-00	ELECT 1MF	20% 50V
NL2214	1-519-154-00	LAMP, NEON		<u>DIODE</u>			
NL2215	1-519-154-00	LAMP, NEON		D2201	8-719-925-26	DIODE SLP252B-06	
NL2216	1-519-154-00	LAMP, NEON		D2206	8-719-812-41	DIODE TLR124	
NL2217	1-519-154-00	LAMP, NEON		D2207	8-719-812-42	DIODE TLY124	
NL2218	1-519-154-00	LAMP, NEON		D2208	8-719-812-43	DIODE TLG124	
NL2219	1-519-154-00	LAMP, NEON		<u>IC</u>			
NL2220	1-519-154-00	LAMP, NEON		IC 2201	8-759-619-03	IC M51903L	
NL2221	1-519-154-00	LAMP, NEON		<u>RESISTOR</u>			
NL2222	1-519-154-00	LAMP, NEON		R2200	1-246-497-00	CARBON 10K 5%	1/4W
				R2201	1-246-469-00	CARBON 680 5%	1/4W
				R2202	1-246-469-00	CARBON 680 5%	1/4W
				R2203	1-246-469-00	CARBON 680 5%	1/4W
				R2204	1-246-469-00	CARBON 680 5%	1/4W

NOTE:

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• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

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Ref.No	Part No	Description	Remark		
R2205	1-246-469-00	CARBON	680	5%	1/4W
R2206	1-246-449-00	CARBON	100	5%	1/4W
R2207	1-246-485-00	CARBON	3.3K	5%	1/4W
SWITCH					
S2201	1-552-656-00	SWITCH, SLIDE			
S2202	1-552-656-00	SWITCH, SLIDE			
S2203	1-553-685-00	SWITCH, PUSH			
S2204	1-553-685-00	SWITCH, PUSH			
S2205	1-553-685-00	SWITCH, PUSH			

♣:A-1306-121-A		ME BOARD COMPLETE			

♣:4-334-254-00		CASE (MAIN), SHIELD, M2			
♣:4-334-255-00		LID, UPPER, M2 SHIELD CASE			
♣:4-334-256-00		LID, REAR, M2 SHIELD CASE			
CAPACITOR					
C001	1-161-272-00	CERAMIC	120PF	5%	50V
C002	1-123-352-00	ELECT	1MF	20%	50V
C003	1-123-352-00	ELECT	1MF	20%	50V
C004	1-161-319-00	CERAMIC	470PF	10%	50V
C006	1-161-323-00	CERAMIC	0.001MF	10%	50V
C007	1-123-333-00	ELECT	100MF	20%	16V
C009	1-161-315-00	CERAMIC	220PF	10%	50V
C010	1-161-315-00	CERAMIC	220PF	10%	50V
C011	1-161-315-00	CERAMIC	220PF	10%	50V
C012	1-161-315-00	CERAMIC	220PF	10%	50V
C013	1-161-315-00	CERAMIC	220PF	10%	50V
C014	1-123-254-00	ELECT	10MF		250V
C015	1-102-189-00	CERAMIC	0.0047MF		125V
C015	1-161-748-00	CERAMIC	0.0047MF		125V
C016	1-123-356-00	ELECT	10MF	20%	16V
C017	1-161-319-00	CERAMIC	470PF	10%	50V
C018	1-123-351-00	ELECT	0.47MF	20%	50V
C031	1-123-355-00	ELECT	4.7MF	20%	50V
C032	1-161-327-00	CERAMIC	0.0033MF	30%	50V
C033	1-123-355-00	ELECT	4.7MF	20%	50V
C034	1-161-267-00	CERAMIC	47PF	5%	50V
C035	1-108-389-00	MYLAR	0.1MF	10%	100V
C036	1-161-270-00	CERAMIC	82PF	5%	50V
C038	1-130-020-00	FILM	0.0015MF	5%	50V
C039	1-130-018-00	FILM	0.001MF	5%	50V
C040	1-130-018-00	FILM	0.001MF	5%	50V
C041	1-161-271-00	CERAMIC	100PF	5%	50V
C043	1-123-352-00	ELECT	1MF	20%	50V
C044	1-108-393-00	MYLAR	0.22MF	10%	100V
C045	1-123-356-00	ELECT	10MF	20%	16V
C046	1-108-377-00	MYLAR	0.01MF	10%	100V
C047	1-161-271-00	CERAMIC	100PF	5%	50V
C049	1-123-318-00	ELECT	33MF	20%	16V
C050	1-123-318-00	ELECT	33MF	20%	16V

Ref.No	Part No	Description	Remark
C052	1-108-421-00	MYLAR 0.01MF 10% 200V	
C053	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C054	1-108-421-00	MYLAR 0.01MF 10% 200V	
C056	1-108-421-00	MYLAR 0.01MF 10% 200V	
C058	1-123-333-00	ELECT 100MF 20% 16V	
C059	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C061	1-123-356-00	ELECT 10MF 20% 16V	
C062	1-123-333-00	ELECT 100MF 20% 16V	
C063	1-161-269-00	CERAMIC 68PF 5% 50V	
C064	1-161-271-00	CERAMIC 100PF 5% 50V	
C065	1-161-317-00	CERAMIC 330PF 10% 50V	
C142	1-101-004-00	CERAMIC 0.01MF 50V	

COMPOSITION

CP001	1-231-569-00	COMPOSITION CIRCUIT BLOCK
CP002	1-231-683-00	COMPOSITION CIRCUIT BLOCK
CP003	1-231-618-00	COMPOSITION CIRCUIT BLOCK

DIODE

D002	=>8-719-911-19	DIODE 1SS119
D006	=>8-719-930-12	DIODE EQB01-12Z
D007	=>8-719-911-55	DIODE U05G
D008	8-719-900-93	DIODE V09C
D009	8-719-100-24	DIODE RD4.3EB3
D010	=>8-719-911-19	DIODE 1SS119
D011	=>8-719-911-19	DIODE 1SS119
D013	=>8-719-911-19	DIODE 1SS119
D030	=>8-719-911-19	DIODE 1SS119
D033	=>8-719-911-19	DIODE 1SS119
D034	=>8-719-911-19	DIODE 1SS119
D035	=>8-719-911-19	DIODE 1SS119
D038	=>8-719-911-19	DIODE 1SS119
D039	8-719-191-26	DIODE RD9.1E-B3Z

IC

IC001	=>8-759-150-24	IC UPD652C024
IC031	8-759-157-40	IC UPC574J
IC032	8-757-604-00	IC CX-760D
IC033	8-758-040-00	IC CX-804
IC034	8-757-611-00	IC CX-761A

COIL

L031	1-408-247-00	MICRO INDUCTOR 33MMH
L032	1-409-193-00	COIL 3.58MHZ TRAP
L033	1-407-705-00	MICRO INDUCTOR 100UH
L034	1-407-687-00	MICRO INDUCTOR 3.3UH
L035	1-407-705-00	MICRO INDUCTOR 100UH
L036	1-408-398-00	MICRO INDUCTOR 1.2UH
L037	1-408-398-00	MICRO INDUCTOR 1.2UH
L039	1-408-454-11	MICRO INDUCTOR 100UH
L040	1-408-454-11	MICRO INDUCTOR 100UH

NOTE:

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• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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• MF : μ F, PF : μ F

RESISTORS
• All resistors are in ohms
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COILS
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KV-1946R

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
<u>CONNECTOR</u>							
ME1	♣:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R012	1-246-521-00	CARBON 100K 1% 1/4W	
ME2	♣:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		R013	1-246-521-00	CARBON 100K 5% 1/4W	
ME3	♣:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R014	1-246-521-00	CARBON 100K 5% 1/4W	
ME7	♣:1-508-786-00	2P PLUG (M)		R015	1-246-528-00	CARBON 200K 5% 1/4W	
ME8	♣:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P		R016	1-246-528-00	CARBON 200K 5% 1/4W	
ME9	♣:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P		R017	1-246-528-00	CARBON 200K 5% 1/4W	
ME12	♣:1-560-127-00	PLUG, CONNECTOR (2.5MM) 7P		R018	1-246-528-00	CARBON 200K 5% 1/4W	
ME13	♣:1-560-129-00	PLUG, CONNECTOR (2.5MM) 9P		R019	1-246-528-00	CARBON 200K 1% 1/4W	
<u>TRANSISTOR</u>				R020	1-246-528-00	CARBON 200K 5% 1/4W	
Q001	=>8-729-117-54	TRANSISTOR 2SA1175		R021	1-246-528-00	CARBON 200K 5% 1/4W	
Q002	8-729-663-47	TRANSISTOR 2SC1364		R022	1-246-528-00	CARBON 200K 5% 1/4W	
Q003	=>8-729-117-54	TRANSISTOR 2SA1175		R023	1-246-528-00	CARBON 200K 1% 1/4W	
Q004	8-729-663-47	TRANSISTOR 2SC1364		R024	1-246-528-00	CARBON 200K 1% 1/4W	
Q005	8-729-663-47	TRANSISTOR 2SC1364		R025	1-246-490-00	CARBON 5.1K 5% 1/4W	
Q006	8-729-663-47	TRANSISTOR 2SC1364		R026	1-246-521-00	CARBON 100K 1% 1/4W	
Q007	8-729-663-47	TRANSISTOR 2SC1364		R027	1-246-521-00	CARBON 100K 1% 1/4W	
Q008	8-729-663-47	TRANSISTOR 2SC1364		R028	1-246-521-00	CARBON 100K 5% 1/4W	
Q009	8-729-173-37	TRANSISTOR 2SA733A		R029	1-246-521-00	CARBON 100K 5% 1/4W	
Q031	8-729-663-47	TRANSISTOR 2SC1364		R030	1-246-528-00	CARBON 200K 5% 1/4W	
Q032	8-729-663-47	TRANSISTOR 2SC1364		R031	1-246-509-00	CARBON 33K 5% 1/4W	
Q033	=>8-729-117-54	TRANSISTOR 2SA1175		R032	1-246-487-00	CARBON 3.9K 5% 1/4W	
Q034	8-729-663-47	TRANSISTOR 2SC1364		R033	1-246-485-00	CARBON 3.3K 5% 1/4W	
Q035	=>8-729-117-54	TRANSISTOR 2SA1175		R034	1-246-485-00	CARBON 3.3K 5% 1/4W	
Q036	8-729-139-04	TRANSISTOR 2N3904		R035	1-246-459-00	CARBON 270 5% 1/4W	
Q038	=>8-729-117-54	TRANSISTOR 2SA1175		R036	1-246-481-00	CARBON 2.2K 5% 1/4W	
Q039	=>8-729-117-54	TRANSISTOR 2SA1175		R037	1-246-497-00	CARBON 10K 5% 1/4W	
Q040	=>8-729-117-54	TRANSISTOR 2SA1175		R038	1-246-497-00	CARBON 10K 5% 1/4W	
Q041	8-729-663-47	TRANSISTOR 2SC1364		R039	1-246-497-00	CARBON 10K 5% 1/4W	
Q043	8-729-663-47	TRANSISTOR 2SC1364		R040	1-246-481-00	CARBON 2.2K 5% 1/4W	
Q044	8-729-663-47	TRANSISTOR 2SC1364		R042	1-246-497-00	CARBON 10K 5% 1/4W	
Q045	=>8-729-117-54	TRANSISTOR 2SA1175		R043	1-246-485-00	CARBON 3.3K 5% 1/4W	
Q047	8-729-663-47	TRANSISTOR 2SC1364		R044	1-246-521-00	CARBON 100K 5% 1/4W	
Q048	8-729-663-47	TRANSISTOR 2SC1364		R045	1-246-533-00	CARBON 330K 5% 1/4W	
Q050	8-729-309-06	TRANSISTOR 2SC1890A		R046	1-246-509-00	CARBON 33K 5% 1/4W	
Q051	8-729-213-11	TRANSISTOR 2SC2230A		R047	1-246-497-00	CARBON 10K 5% 1/4W	
Q052	8-729-663-47	TRANSISTOR 2SC1364		R048	1-246-505-00	CARBON 22K 5% 1/4W	
Q053	8-729-663-47	TRANSISTOR 2SC1364		R049	1-246-497-00	CARBON 10K 5% 1/4W	
Q054	8-729-663-47	TRANSISTOR 2SC1364		R050	1-246-497-00	CARBON 10K 5% 1/4W	
<u>RESISTOR</u>				R051	1-206-696-00	METAL 22K 5% 2W F	
R001	1-246-532-00	CARBON 300K 5% 1/4W		R052	1-246-489-00	CARBON 4.7K 5% 1/4W	
R002	1-246-531-00	CARBON 270K 5% 1/4W		R053	1-246-509-00	CARBON 33K 5% 1/4W	
R003	1-246-493-00	CARBON 6.8K 5% 1/4W		R055	1-246-509-00	CARBON 33K 5% 1/4W	
R004	1-246-490-00	CARBON 5.1K 5% 1/4W		R056	1-246-509-00	CARBON 33K 5% 1/4W	
R005	1-246-532-00	CARBON 300K 5% 1/4W		R057	1-246-535-00	CARBON 390K 5% 1/4W	
R006	1-246-521-00	CARBON 100K 5% 1/4W		R058	1-246-521-00	CARBON 100K 5% 1/4W	
R007	1-246-521-00	CARBON 100K 5% 1/4W		R059	1-246-461-00	CARBON 330 5% 1/4W	
R008	1-246-545-00	CARBON 1M 5% 1/4W		R060	1-246-489-00	CARBON 4.7K 5% 1/4W	
R010	1-246-479-00	CARBON 1.8K 5% 1/4W		R061	1-246-489-00	CARBON 4.7K 5% 1/4W	
R011	1-246-472-00	CARBON 910 5% 1/4W		R062	1-246-505-00	CARBON 22K 5% 1/4W	
				R063	1-246-489-00	CARBON 4.7K 5% 1/4W	
				R064	1-246-521-00	CARBON 100K 5% 1/4W	
				R065	1-246-521-00	CARBON 100K 5% 1/4W	
				R066	1-246-505-00	CARBON 22K 5% 1/4W	

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• MF : μ F, PF : μ F

RESISTORS
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COILS
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ME

C

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Ref.No	Part No	Description	Remark
R067	1-246-481-00	CARBON 2.2K 5% 1/4W	
R068	1-246-473-00	CARBON 1K 5% 1/4W	
R069	1-246-481-00	CARBON 2.2K 5% 1/4W	
R070	1-246-497-00	CARBON 10K 5% 1/4W	
R071	1-246-505-00	CARBON 22K 5% 1/4W	
R072	1-246-497-00	CARBON 10K 5% 1/4W	
R073	1-246-473-00	CARBON 1K 5% 1/4W	
R074	1-246-529-00	CARBON 220K 5% 1/4W	
R075	1-246-497-00	CARBON 10K 5% 1/4W	
R076	1-246-473-00	CARBON 1K 5% 1/4W	
R077	1-246-497-00	CARBON 10K 5% 1/4W	
R078	1-246-497-00	CARBON 10K 5% 1/4W	
R079	1-246-497-00	CARBON 10K 5% 1/4W	
R080	1-246-497-00	CARBON 10K 5% 1/4W	
R081	1-246-497-00	CARBON 10K 5% 1/4W	
R082	1-246-497-00	CARBON 10K 5% 1/4W	
R083	1-246-519-00	CARBON 82K 5% 1/4W	
R084	1-246-497-00	CARBON 10K 5% 1/4W	
R085	1-214-596-00	METAL 39K 5% 2W	F
R086	1-244-914-00	CARBON 51K 5% 1/2W	
R087	1-246-529-00	CARBON 220K 5% 1/4W	
R088	1-246-473-00	CARBON 1K 5% 1/4W	
R089	1-246-473-00	CARBON 1K 5% 1/4W	
R092	1-246-499-00	CARBON 12K 5% 1/4W	
R094	1-246-507-00	CARBON 27K 5% 1/4W	
R095	1-246-519-00	CARBON 82K 5% 1/4W	
R096	1-246-497-00	CARBON 10K 5% 1/4W	
R097	1-246-513-00	CARBON 47K 5% 1/4W	
R098	1-246-473-00	CARBON 1K 5% 1/4W	
R100	1-246-537-00	CARBON 470K 5% 1/4W	
R101	1-246-509-00	CARBON 33K 5% 1/4W	
R102	1-246-497-00	CARBON 10K 5% 1/4W	
R103	1-246-481-00	CARBON 2.2K 5% 1/4W	
R104	1-246-509-00	CARBON 33K 5% 1/4W	
R105	1-246-509-00	CARBON 33K 5% 1/4W	
R106	1-246-516-00	CARBON 62K 5% 1/4W	
R107	1-246-497-00	CARBON 10K 5% 1/4W	
R108	1-246-481-00	CARBON 2.2K 5% 1/4W	
R109	1-246-481-00	CARBON 2.2K 5% 1/4W	
R110	1-246-497-00	CARBON 10K 5% 1/4W	
R111	1-246-509-00	CARBON 33K 5% 1/4W	
R112	1-246-525-00	CARBON 150K 5% 1/4W	
R118	1-246-473-00	CARBON 1K 5% 1/4W	
R119	1-246-509-00	CARBON 33K 5% 1/4W	
R120	1-246-473-00	CARBON 1K 5% 1/4W	
R121	1-206-664-00	METAL 1K 5% 2W	F
R122	1-205-662-00	WIREWOUND 7.5K 5% 7W	
R123	1-213-131-00	METAL 100 5% 1W	F
R124	1-246-497-00	CARBON 10K 5% 1/4W	
R125	1-246-465-00	CARBON 470 5% 1/4W	
R127	1-246-516-00	CARBON 62K 5% 1/4W	
R128	1-246-449-00	CARBON 100 5% 1/4W	
R129	1-246-473-00	CARBON 1K 5% 1/4W	

Ref.No	Part No	Description	Remark
R131	1-246-493-00	CARBON 6.8K 5% 1/4W	
R132	1-246-504-00	CARBON 20K 5% 1/4W	
R133	1-246-521-00	CARBON 100K 5% 1/4W	
R134	1-246-488-00	CARBON 4.3K 5% 1/4W	
R136	1-246-483-00	CARBON 2.7K 5% 1/4W	
R145	1-246-521-00	CARBON 100K 5% 1/4W	
R147	1-246-537-00	CARBON 470K 5% 1/4W	
R148	1-246-519-00	CARBON 82K 5% 1/4W	
R149	1-246-516-00	CARBON 62K 5% 1/4W	
R150	1-246-521-00	CARBON 100K 5% 1/4W	
R151	1-246-521-00	CARBON 100K 5% 1/4W	
R152	1-246-537-00	CARBON 470K 5% 1/4W	
R153	1-246-473-00	CARBON 1K 5% 1/4W	
R154	1-246-473-00	CARBON 1K 5% 1/4W	
R156	1-246-521-00	CARBON 100K 5% 1/4W	
R160	1-246-509-00	CARBON 33K 5% 1/4W	
R161	1-246-521-00	CARBON 100K 5% 1/4W	
<u>RELAY</u>			
RL001A	1-515-346-00	RELAY	
<u>CRYSTAL</u>			
X001	1-527-532-00	OSCILLATOR, CERAMIC	

♣:A-1330-301-A C BOARD, COMPLETE			

1-526-616-00 SOCKET, PICTURE TUBE			
♣:1-602-373-00 PC BOARD, C			
<u>CONNECTOR</u>			
C1	♣:1-508-765-00	3P PLUG (M)	
C2	♣:1-506-371-00	2P PLUG (L)	
<u>CAPACITOR</u>			
C701	1-123-352-00	ELECT 1MF 20% 50V	
C702	1-129-737-00	FILM 0.047MF 20% 630V	
C703	1-102-249-00	CERAMIC 680PF 20% 2KV	
<u>COIL</u>			
L701	1-407-704-00	MICRO INDUCTOR 82UH	
L702	1-407-704-00	MICRO INDUCTOR 82UH	
L703	1-407-704-00	MICRO INDUCTOR 82UH	
L704	1-407-708-00	MICRO INDUCTOR 180UH	
L705	1-421-393-00	COIL, FERRITE CHOKE	
<u>TRANSISTOR</u>			
Q701	8-729-322-78	TRANSISTOR 2SC2278	
Q702	8-729-322-78	TRANSISTOR 2SC2278	
Q703	8-729-322-78	TRANSISTOR 2SC2278	

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RESISTORS
• All resistors are in ohms
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COILS
• MMH : mH, UH : μ H

KV-1946R

Ref.No	Part No	Description	Remark
<u>RESISTOR</u>			
R701	1-246-455-00	CARBON 180 5% 1/4W	
R702	1-246-489-00	CARBON 4.7K 5% 1/4W	
R703	1-206-692-00	METAL 15K 5% 2W	F
R704	1-246-489-00	CARBON 4.7K 5% 1/4W	
R705	1-246-455-00	CARBON 180 5% 1/4W	
R706	1-206-692-00	METAL 15K 5% 2W	F
R707	1-246-459-00	CARBON 270 5% 1/4W	
R708	1-246-489-00	CARBON 4.7K 5% 1/4W	
R709	1-206-692-00	METAL 15K 5% 2W	F
R710	1-202-824-00	COMPOSITION 3.3K 1/2W	
R711	1-202-837-51	COMPOSITION 82K 1/2W	
R713	1-202-824-00	COMPOSITION 3.3K 1/2W	
R714	1-202-814-51	COMPOSITION 33K 1/2W	
R715	1-202-841-51	COMPOSITION 180K 1/2W	
R716	1-202-824-00	COMPOSITION 3.3K 1/2W	
R717	1-202-719-00	COMPOSITION 1M 10% 1/2W	
R718	1-202-549-00	COMPOSITION 100 10% 1/2W	
R719	1-202-842-51	COMPOSITION 220K 1/2W	
R720	1-202-846-51	COMPOSITION 470K 1/2W	
R721	1-202-848-51	COMPOSITION 680K 1/2W	
<u>VARIABLE RESISTOR</u>			
RV701	1-222-518-31	RES, ADJ, CARBON 4.7K	
RV702	1-226-105-00	RES, ADJ, CARBON 220	
RV703	1-222-518-31	RES, ADJ, CARBON 4.7K	
RV704	1-226-105-00	RES, ADJ, CARBON 220	
RV705	1-222-518-31	RES, ADJ, CARBON 4.7K	
RV706	1-226-063-00	RES, ADJ, CARBON 2.2M	
RV707	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M	
<u>SPARK GAP</u>			
SG701	1-519-063-XX	DISCHARGING GAP	
SG702	1-519-063-XX	DISCHARGING GAP	
SG703	1-519-063-XX	DISCHARGING GAP	
SG704	1-519-063-XX	DISCHARGING GAP	
SG705	1-519-063-XX	DISCHARGING GAP	
SG706	1-519-063-XX	DISCHARGING GAP	

♣:1-600-601-00		S BOARD	

<u>CAPACITOR</u>			
C101	1-123-317-00	ELECT 22MF 20% 16V	
C102	1-123-329-00	ELECT 10MF 20% 25V	
C103	1-123-329-00	ELECT 10MF 20% 25V	
C104	1-123-318-00	ELECT 33MF 20% 16V	
C105	1-123-318-00	ELECT 33MF 20% 16V	
C106	1-108-389-00	MYLAR 0.1MF 10% 100V	
C108	1-108-385-00	MYLAR 0.047MF 10% 100V	
C109	1-108-387-00	MYLAR 0.068MF 10% 100V	

Ref.No	Part No	Description	Remark
<u>TRANSISTOR</u>			
Q101	8-729-663-47	TRANSISTOR 2SC1364	
<u>RESISTOR</u>			
R101	1-246-509-00	CARBON 33K 5% 1/4W	
R102	1-246-533-00	CARBON 330K 5% 1/4W	
R103	1-246-481-00	CARBON 2.2K 5% 1/4W	
R104	1-246-465-00	CARBON 470 5% 1/4W	
<u>CONNECTOR</u>			
S1	♣:1-560-127-00	PLUG, CONNECTOR (2.5MM) 7P	

<u>MISCELLANEOUS</u>			

♣:1-226-733-00	RES ASSY, HIGH-VOLTAGE		
1-452-032-00	MAGNET, DISC 10mm ϕ		
1-452-094-00	MAGNET, DISK TYPE 15mm ϕ		
1-452-146-00	MAGNET, BMC		
♣:1-463-264-00	TUNER (BT-852)		
1-527-476-00	OSCILLATOR, CERAMIC		
1-536-401-XX	C-TYPE 1L1 LUG TERMINAL STRIP		
♣:1-536-584-00	TERMINAL BOARD ASSY, ANTENNA		
♣:1-551-249-00	CABLE, P-P		
♣:1-551-454-21	CORD, POWER		
♣:1-551-607-41	CONNECTOR ASSY, MINI (3P)		
♣:1-551-653-00	FEEDER, SOLDERLESS TERMINAL		
♣:1-551-655-00	CONNECTOR, ASSY (5P)		
♣:1-551-793-00	CONNECTOR ASSY (L) 2P		
♣:1-551-919-00	CONNECTOR ASSY 3P		
1-551-941-00	CONNECTOR ASSY (2.5MM) 9P		
♣:1-555-032-00	CONNECTOR ASSY, MINIATURE 3P		
♣:1-555-190-61	CONNECTOR, MINIATURE 2P		
♣:1-555-190-71	CONNECTOR, MINIATURE 2P		
♣:1-555-344-00	CONNECTOR ASSY (2.5MM) 7P		
♣:1-555-439-00	CONNECTOR ASSY (LARGE) 3P		
1-555-445-11	CORD, POWER		
♣:1-555-470-00	CONNECTOR ASSY (2.5MM) 8P		
1-555-619-00	CONNECTOR ASSY (2.5MM) 5P		
1-555-651-00	CONNECTOR ASSY (2.5MM) 6P		
♣:1-555-653-00	CONNECTOR ASSY (2.5MM) 4P		
♣:1-555-688-00	CONNECTOR ASSY, MINIATURE 4P		
♣:1-555-754-00	CONNECTOR ASSY (2.5MM) 3P		
♣:1-555-755-00	CONNECTOR ASSY (2.5MM) 3P		
1-561-335-00	CONNECTOR, ANTENNA (EAC-31)		
♣:X-4333-120-0	PROTECTOR ASSY, CRT NECK		
C901	♣:1-102-327-00	CAP, CERAMIC 330PF 1.5KV	
J901A	1-507-372-00	JM-35 DOUBLE JACK	
J901B	1-507-372-00	JM-35 DOUBLE JACK	
L901	♣:1-425-901-22	COIL, ERASE	
L902	♣:1-425-901-22	COIL, ERASE	

NOTE:

The components identified by shading and mark ♣ are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ PF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

KV-1946R

Ref.No	Part No	Description	Remark
L903	1-407-365-00	COIL, CHOKE (HIGH FREQUENCY)	
L904	1-408-349-00	COIL, CHOKE	
L905	1-451-182-00	DEFLECTION YOKE (SY108A)	
Q901	8-729-287-00	TRANSISTOR 2SD870	
R901	1-217-605-00	RES, WIREWOUND 2.2 (10W)	
R902	1-205-608-00	RES, CEMENT 180 (20W)	
S901	1-553-262-00	SWITCH, PUSH (POWER SWITCH)	
SP901	1-502-766-00	SPEAKER	
V901	8-738-705-05	PICTURE TUBE 520RB22	

ACCESSORIES AND PACKING MATERIALS

Part No	Description	Remark
Y-2063-103-0	AN-15 LOOP ANTENNA	
Y-2201-611-0	OVERALL ASSY, AN-16	
1-504-034-32	EARPHONE, MAGNETIC (ME-20B)	
1-528-068-11	DRY BATTERY, CARBON-ZINC	
3-701-620-00	BAG, POLYETHYLENE (RM703)	
4-329-149-01	LABEL (B), INDICATOR	
4-349-950-00	BAG, POLYETHYLENE	
4-350-956-00	CUSHION (LEFT UPPER)	
4-350-957-00	CUSHION (RIGHT UPPER)	
4-350-958-00	CUSHION (LEFT LOWER)	
4-350-959-00	CUSHION (RIGHT LOWER)	
4-350-982-00	INDIVIDUAL CARTON	
4-491-213-21	INSTRUCTION	
4-491-515-00	SCHEMATIC DIAGRAM (B2) (SONAM)	
4-493-550-21	MANUAL, INSTRUCTION	
7-822-282-01	IBM, CARD (WHITE)	
7-822-282-02	IBM, CARD (PINK)	
7-822-282-03	IBM, CARD (YELLOW)	

NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "•" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

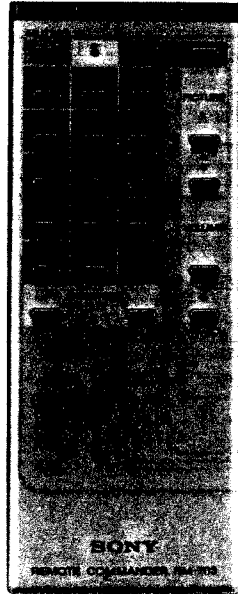
• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

RM-703



REMOTE COMMANDER

SPECIFICATIONS

- Remote control system:** Infrared control
- Power requirements:** 3Vdc
(IEC Battery Designation R6)
- Dimensions:** Approx. 60(w)x20(h)x150(d) mm
2³/₈ (w)x7⁷/₈ (h)x6 (d) inches
- Weight:** Approx. 140 g (4.9 oz)
- Accessories supplied:** Battery size "A" 2 pcs.

A

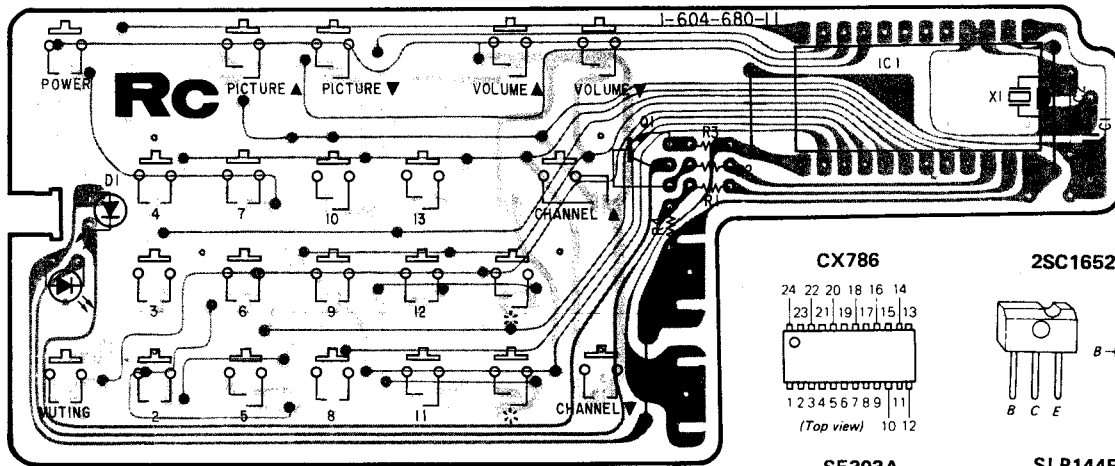
B

C

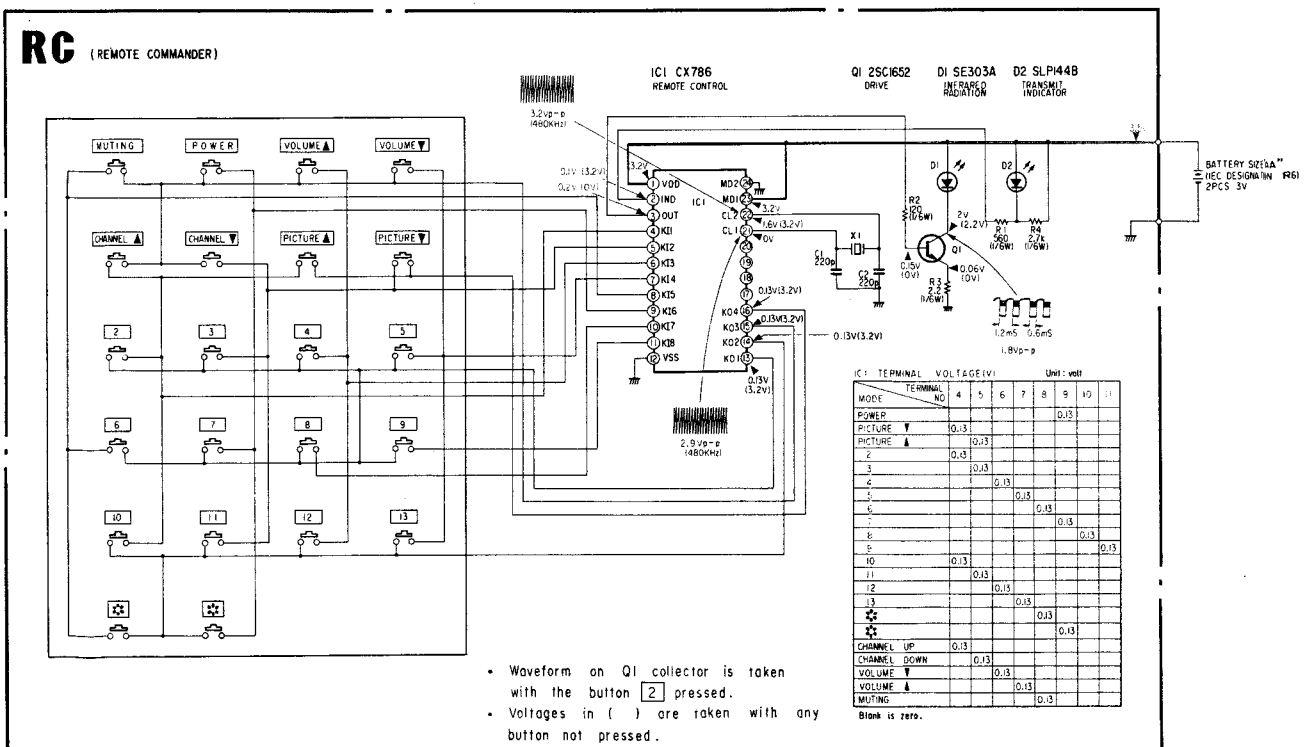
D

1. MOUNTING DIAGRAMS

— Conductor Side —



2. SCHEMATIC DIAGRAM



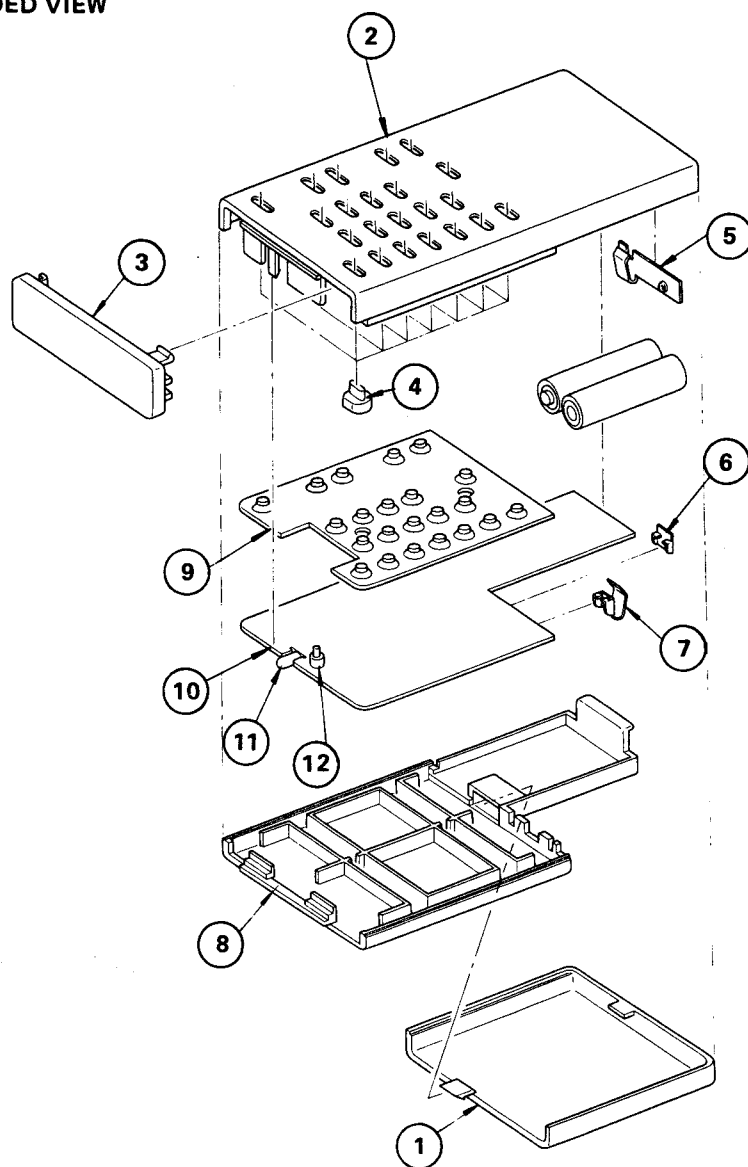
- All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : μF
- All resistors are in ohms. $\frac{1}{4}\text{W}$ unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000 k Ω
- : panel designation.

A

B

C

3. EXPLODED VIEW



No.	Part No	Description
1	4-350-931-00	COVER, BATTERY
2	X-4350-906-0	CASE ASSY, UPPER
3	4-350-929-00	PLATE, FROSTED
4	3-706-272-11	KEY TOP
5	4-350-925-00	TERMINAL (C), BATTERY
6	4-350-923-00	TERMINAL (A), BATTERY

Remark	No.	Part No	Description
5	7	4-350-924-00	TERMINAL (B), BATTERY
	8	4-350-933-00	CASE, LOWER
	9	4-350-928-00	SHEET, RUBBER
	10	1-604-680-00	PC BOARD, RC
	11	8-719-193-03	DIODE SE303AX
	12	8-719-901-44	DIODE SLP144B

Remark

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

RC**4. ELECTRICAL PARTS LIST**

<u>Ref.No</u>	<u>Part No</u>	<u>Description</u>	<u>Remark</u>
	●:1-604-680-00	RC BOARD *****	
<u>CAPACITOR</u>			
C1	1-161-315-00	CAP, CERAMIC 220PF B	
<u>DIODE</u>			
D1	8-719-193-03	DIODE SE303AX	
D2	3-719-901-44	DIODE SLP1443	
<u>IC</u>			
IC1	8-759-907-86	IC CX-786	
<u>TRANSISTOR</u>			
Q1	=>8-729-967-32	TRANSISTOR 2SC2673	
<u>RESISTOR</u>			
R1	1-246-780-00	RES, CARBON 560	1/6W
R2	1-246-772-00	RES, CARBON 120	1/6W
R3	1-246-751-00	RES, CARBON 2.2	1/6W
R4	1-246-788-00	RES, CARBON 2.7K	1/6W
<u>CRYSTAL</u>			
X1	1-527-476-00	OSCILLATOR, CERAMIC	

NOTE:

The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "●" are not stocked since they are seldom required for routine service. Some delays should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

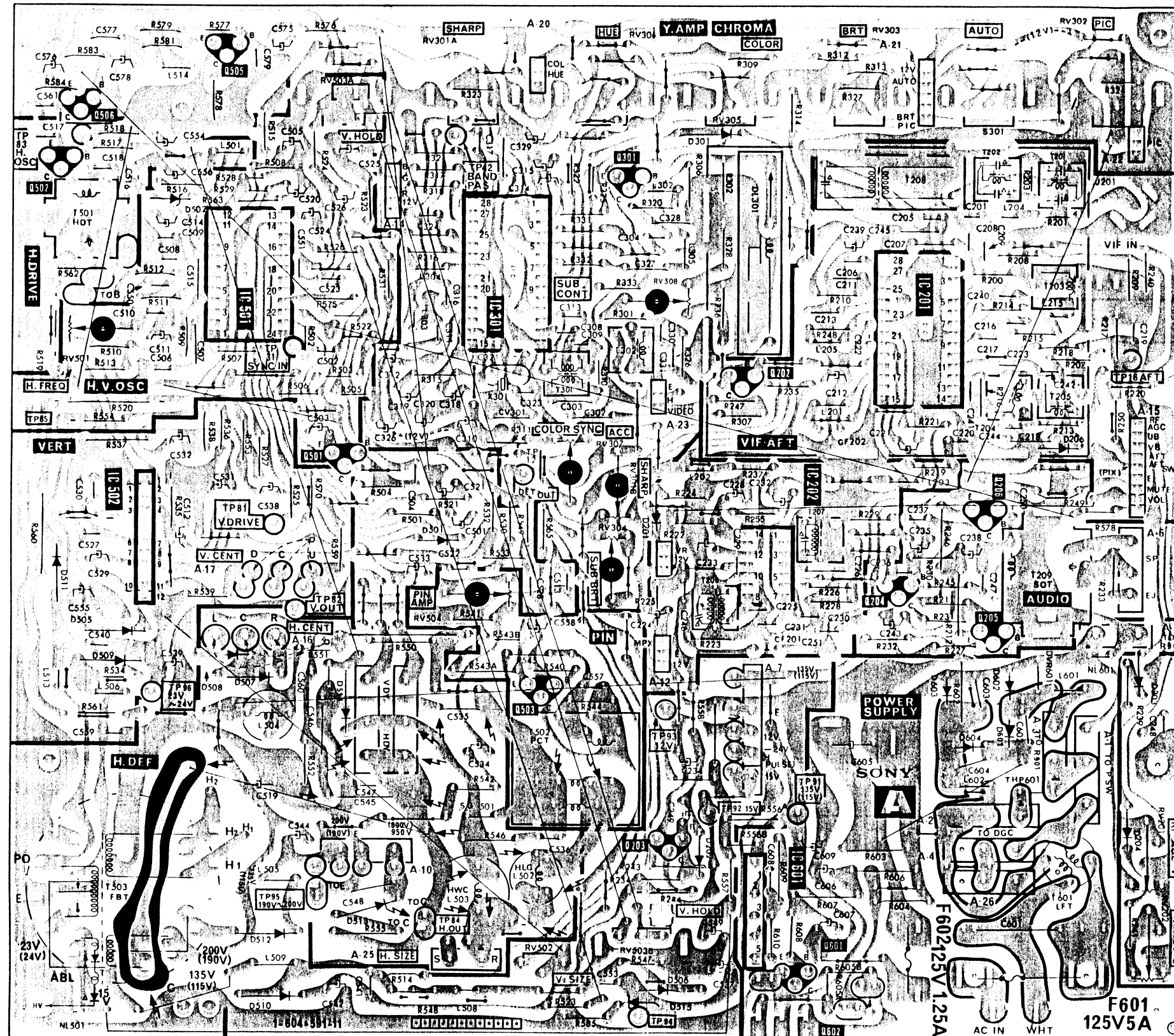
COILS
• MMH : mH, UH : μ H

MOUNTING DIAGRAM

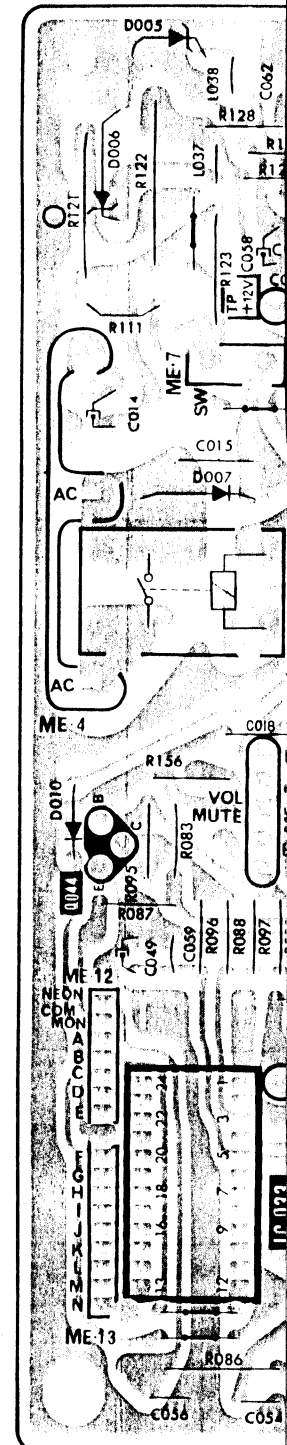
A VIF, SIF, AF OUT
CHROMA, Y. AMP
H DEF, V DEF
POWER SUPPLY

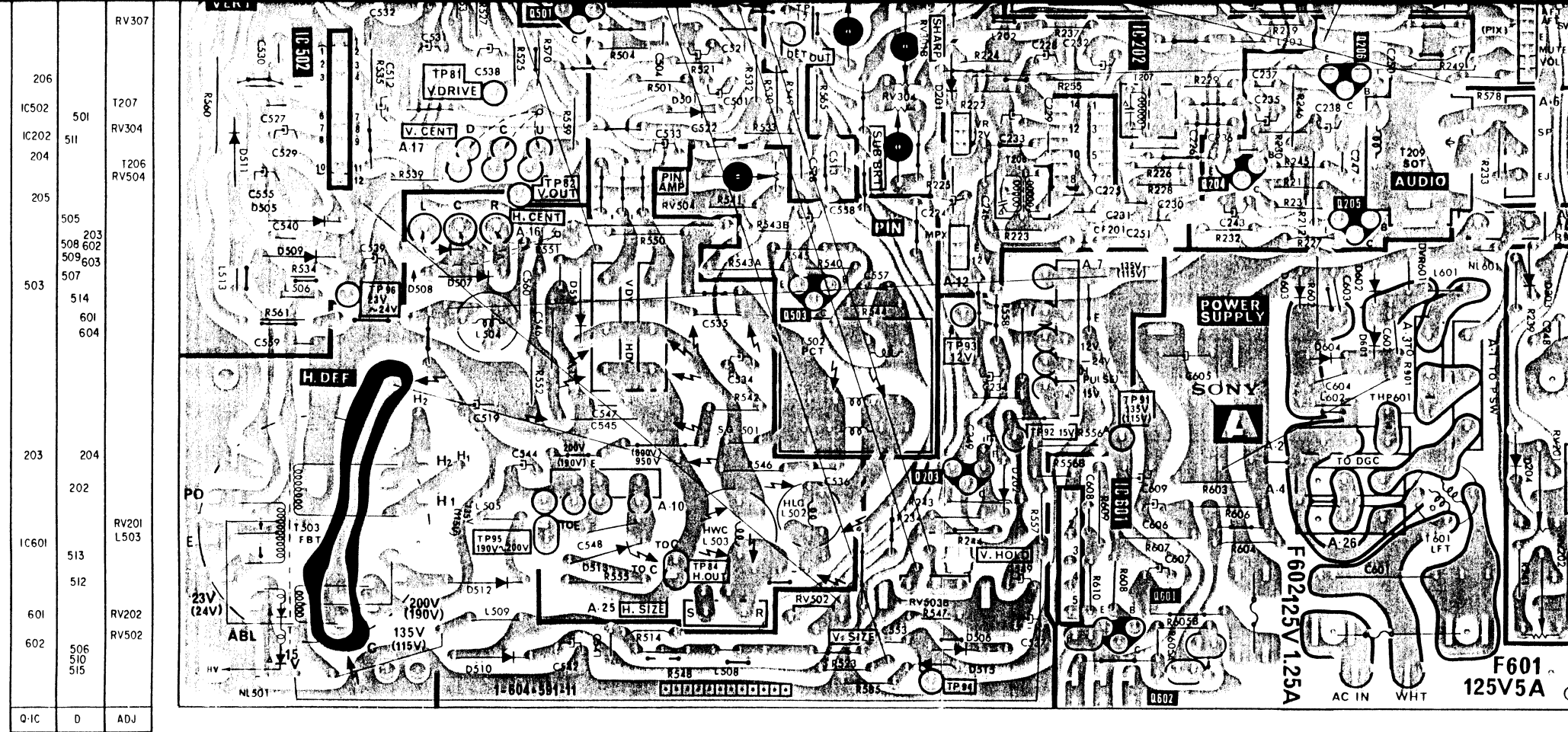
ME REMOTE CONTROL
TUNING CONTROL
MEMORY, NEON DRIVE
BAND SWITCH

Q-IC	D	ADJ
505		
506	301	
502	301	
IC301		RV308
IC501		RV501
202		
		CV301
		RV307
206		
IC502	501	T207
IC202	511	RV304
204		T206
205		RV504
505	203	
508	602	
509	603	
507		
503	514	
	601	
	604	
203	204	
202		RV201
IC601	513	L503
	512	
601		RV202
602	506	RV502
	510	
	515	
Q-IC	D	ADJ

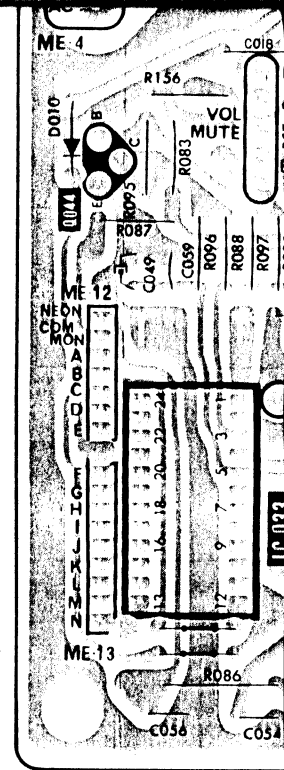


Q, IC	D
005	012
002	009
052	001
004	006
003	011
IC001	013
005	
050	006
007	014
047	002
048	
008	030
032	
054	039
045	
033	038
031	
034	010
044	L032
IC032	
IC031	
036	
053	
043	035
041	
IC034	
IC033	
040	
038	033
	034
039	
Q, IC	D





045	
033	038
031	
034	010 L032
044	
1C032	
1C031	
036	
053	
043	035
041	
1C034	
1C033	
040	
038	033
	034
039	
Q, 1C	D

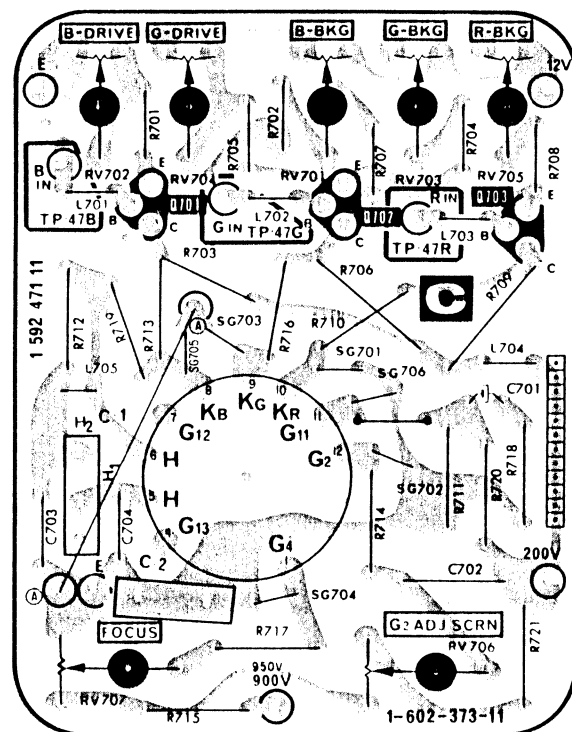


C [R·G·B OUT]

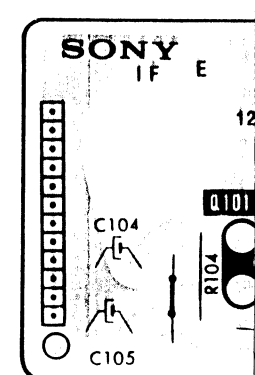
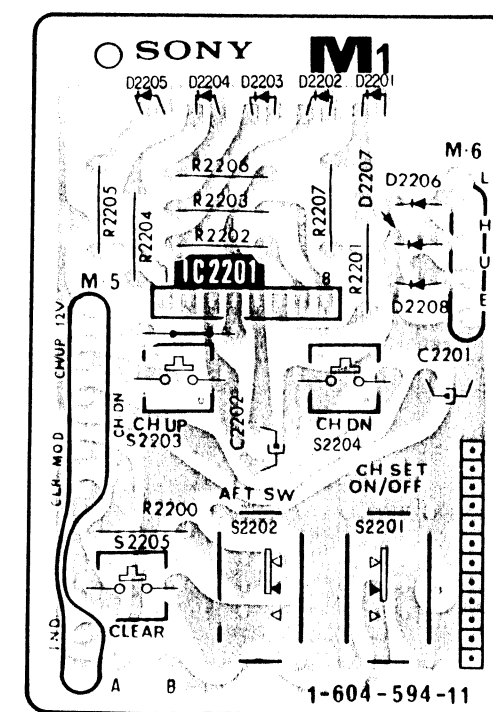
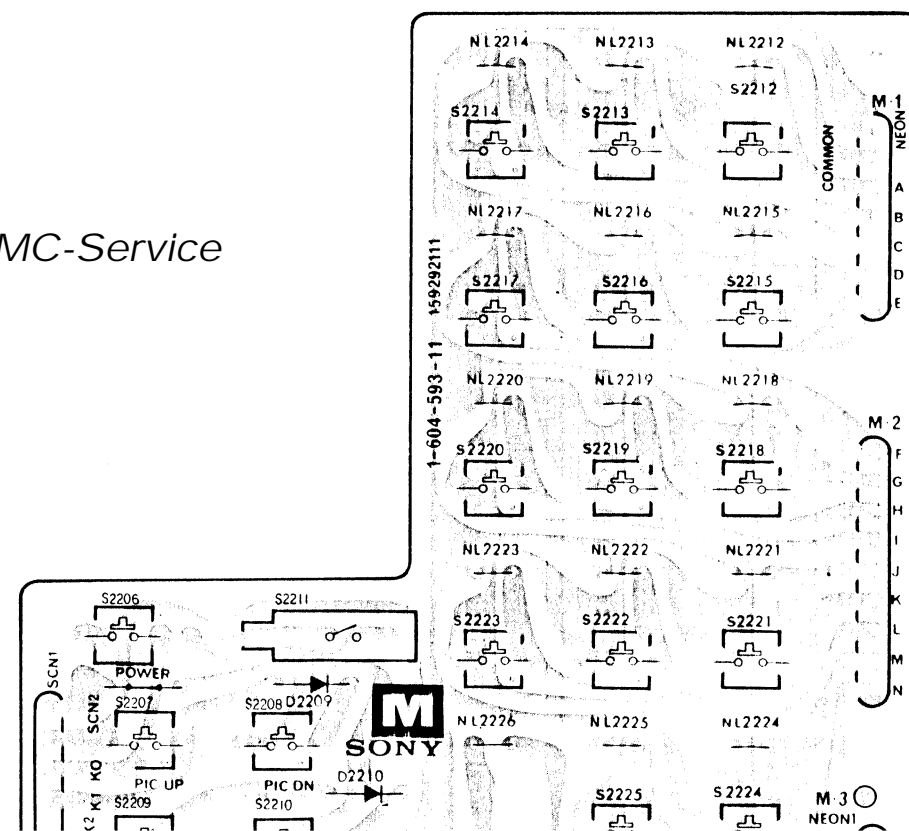
M [CHANNEL SELECT
[CUSTOMER CONTROL]

M1 [CHANNEL SET]

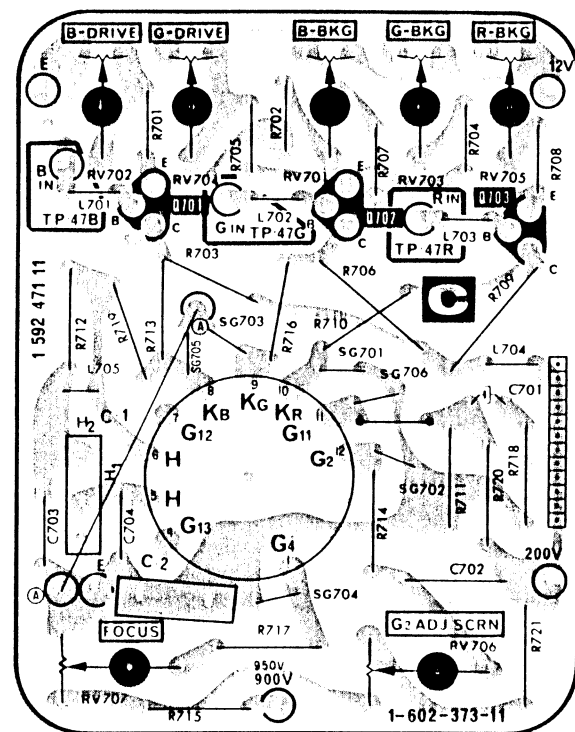
S [TUNER
ACTIVE FILTER



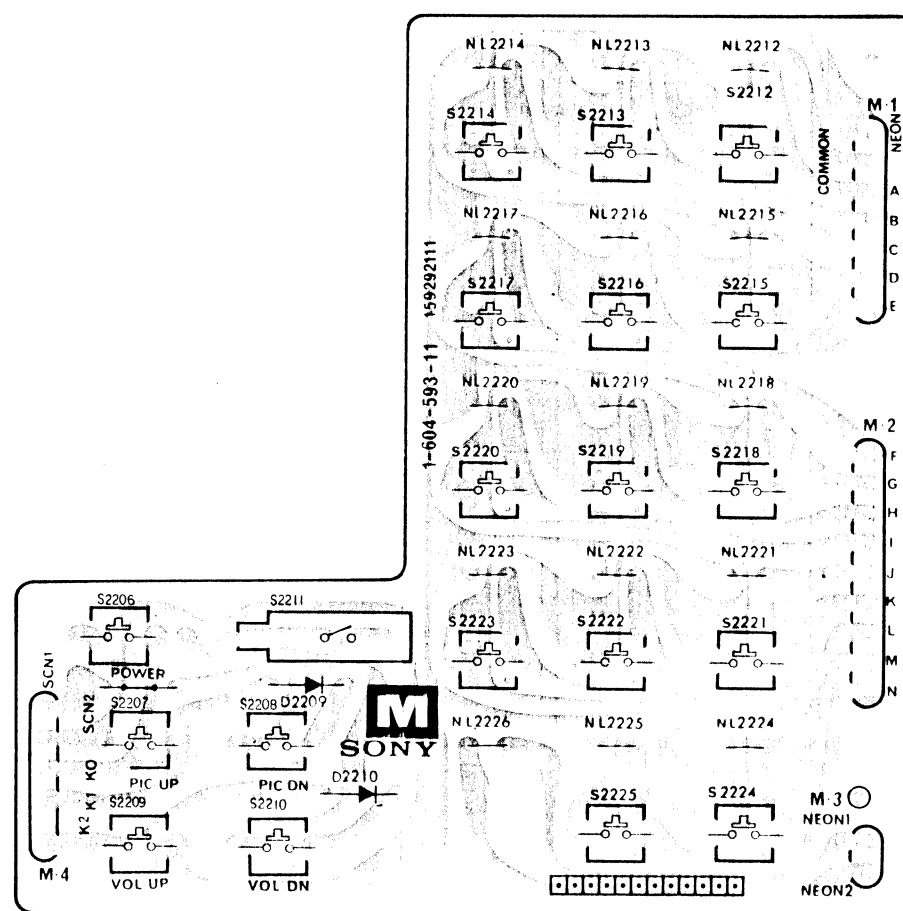
MC-Service



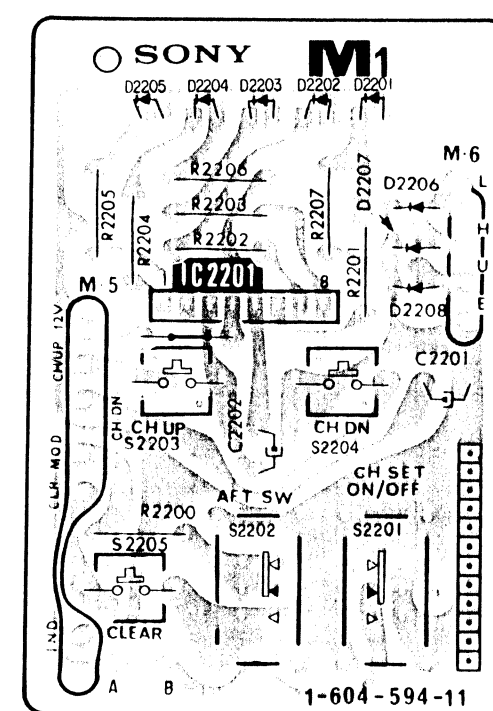
C [R-G-B OUT]



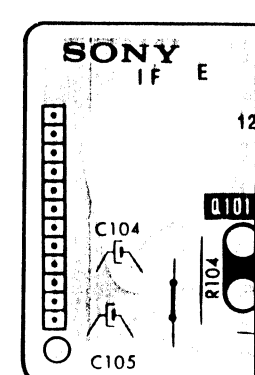
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CUSTOMER CONTROL]



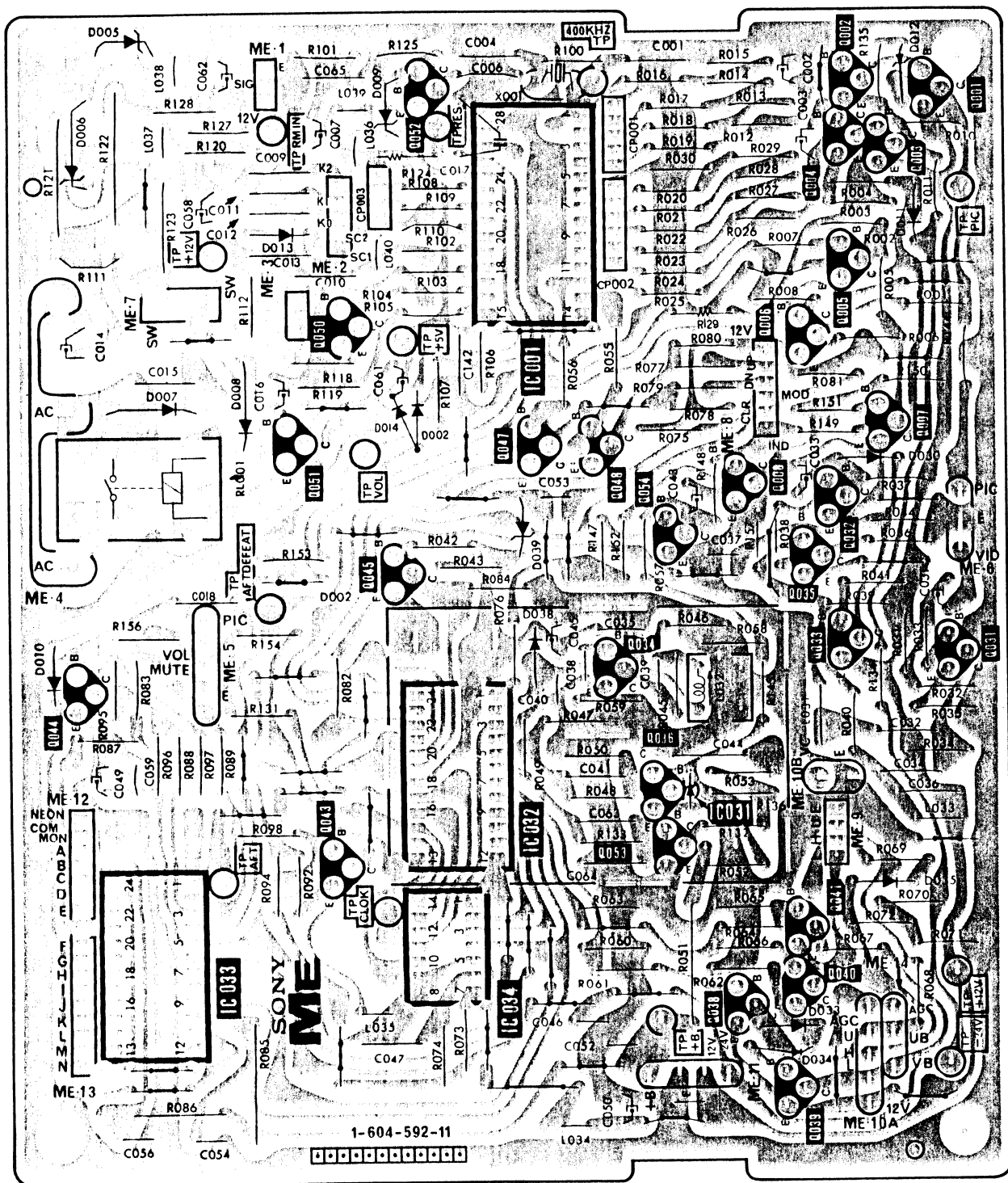
M1 [CHANNEL SET]



S [TUNER
ACTIVE FILTER]



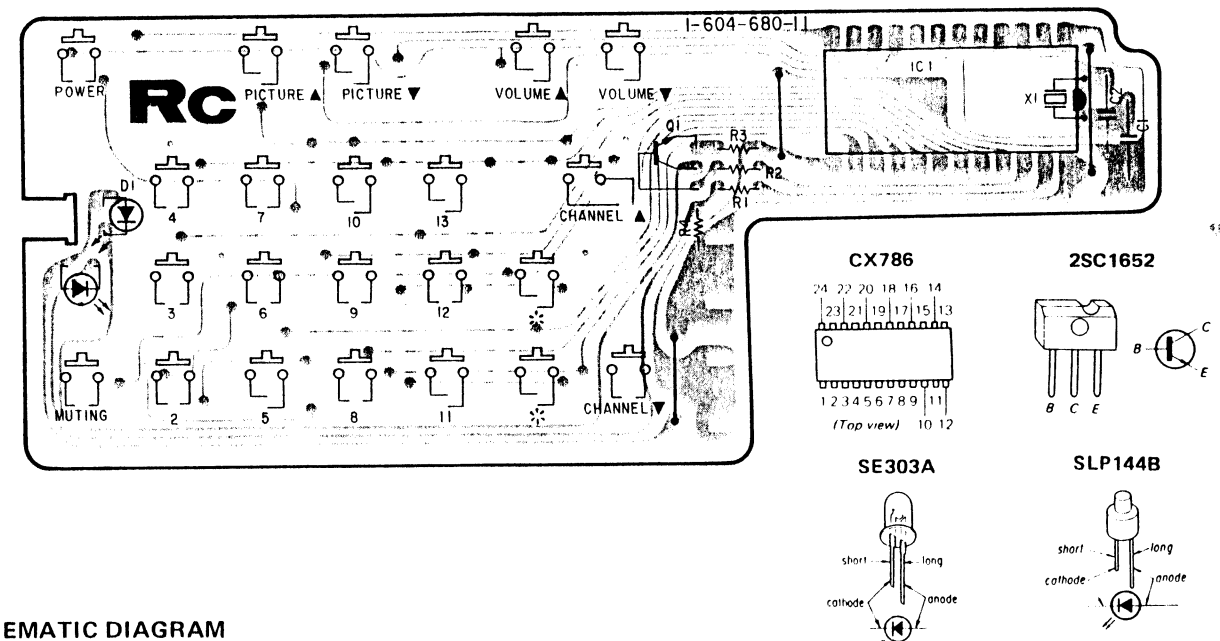
CONTROL
CONTROL
NEON DRIVE
CH



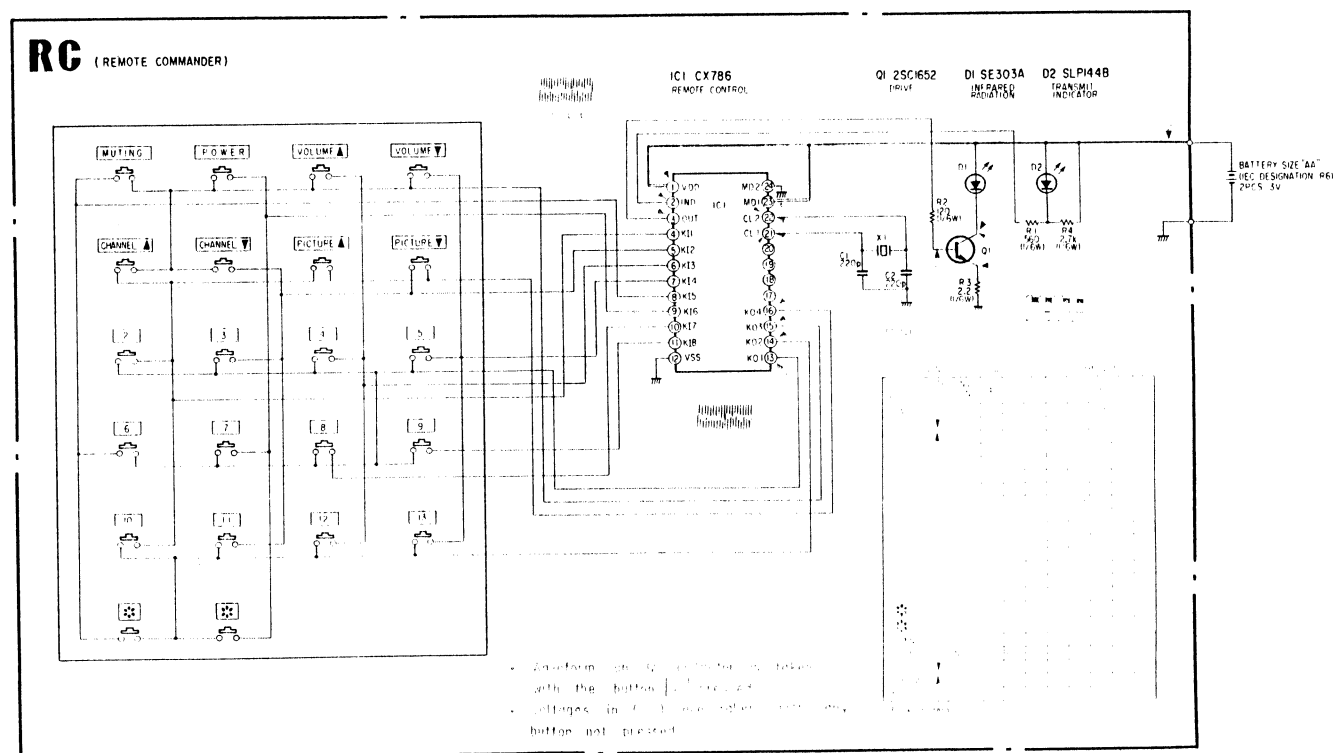
REMOTE COMMANDER RM-703

MOUNTING DIAGRAMS

— Conductor Side —



SCHEMATIC DIAGRAM



MC-Service

CX555A
CX556

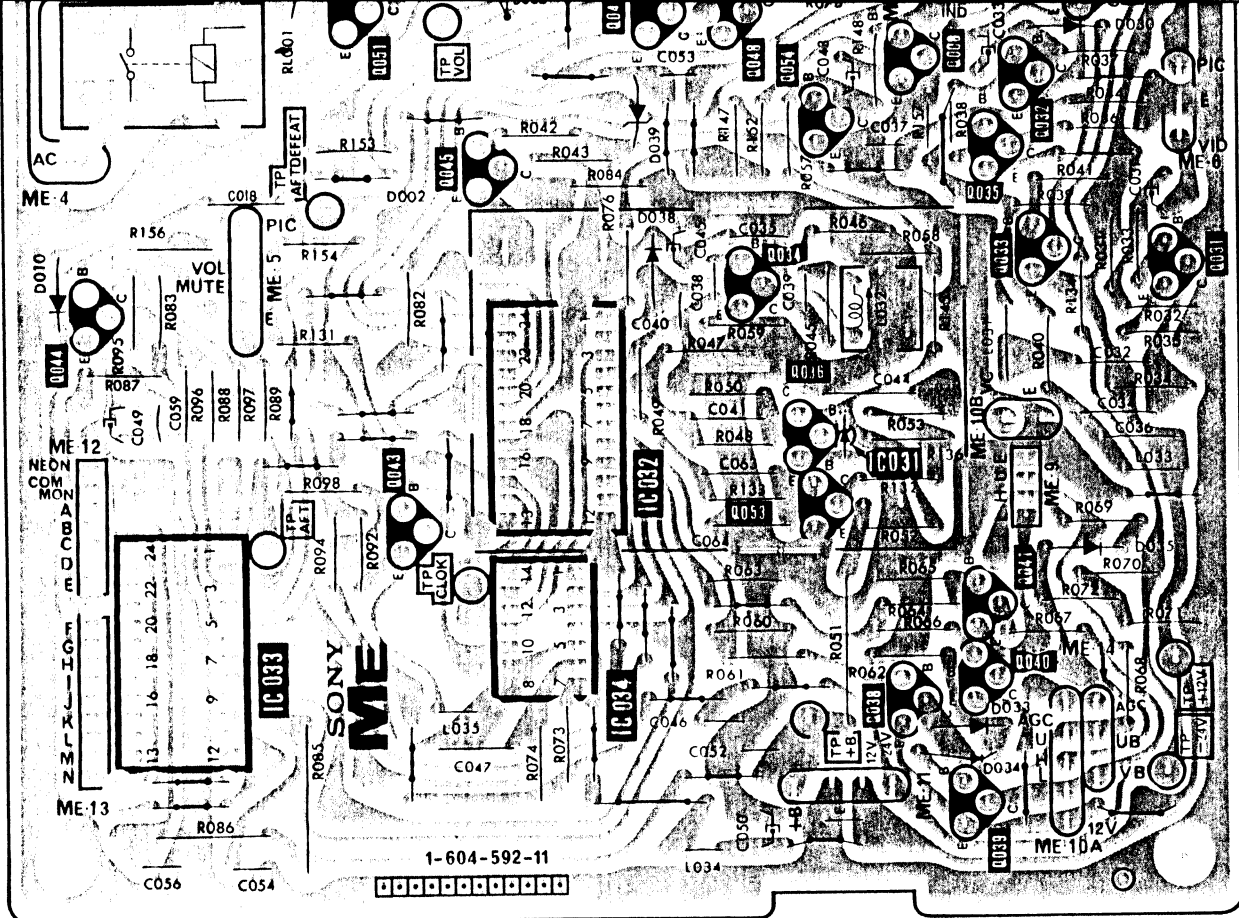
μPC1368H

2SC945
2SC1364
2SC1890A

2SD869
2SD870

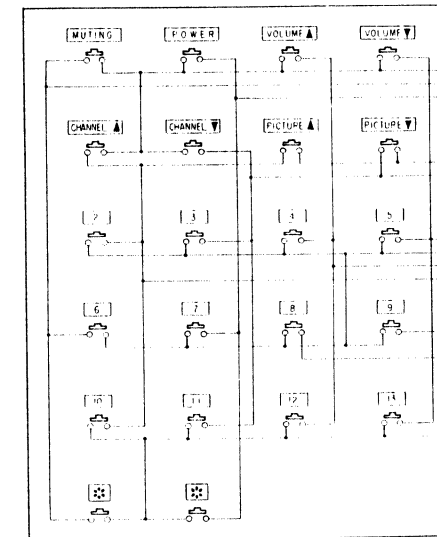
GP08D
RH1

cathode



SCHEMATIC DIAGRAM

RC (REMOTE COMMANDER)



- 20-ohm load is connected to the output of the RC when the button is pressed.
- Voltages in the RC are relative to the common button rest potential.

IC1 CX786

REMOTE CONTROL

Q1 2SC1652

DRIVE

D1 SE303A

INFRARED

D2 SLP144B

TRANSMITTER

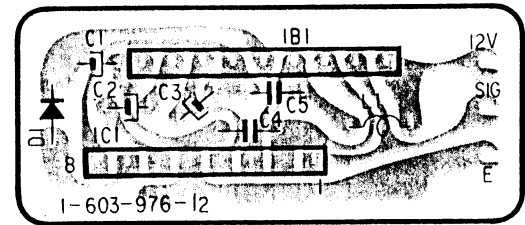
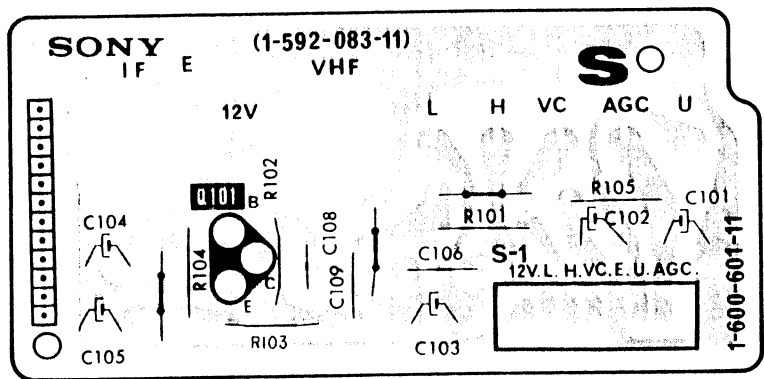
BATTERY SIZE "AA"

REC. DESIGNATION: R61

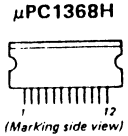
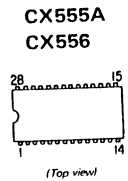
2VX5.5V

S [TUNER
ACTIVE FILTER]

N [DETECTOR
INF. AMP]



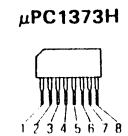
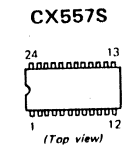
MC-Service



2SC945
2SC1364
2SC1890A
2SC2230A

2SD869
2SD870

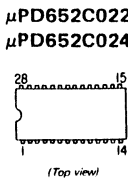
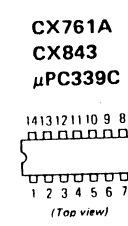
GP08D
RH1



2SC1061
2SC1419

MN8303

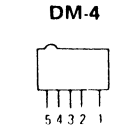
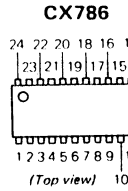
PH302A



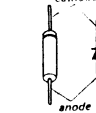
2SC2610BK

1S1555
RD4.3E-C
RD5.6E-B2Z
RD5.6E-B27S
RD9.1E-B3Z
RD13E-B2Z

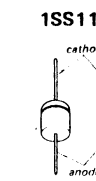
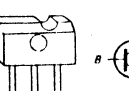
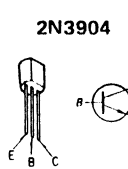
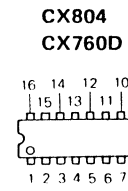
RH1A



2SC1652

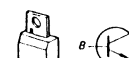


SE303AX



SLP144B

2SA733
2SA893A



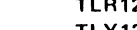
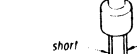
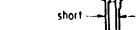
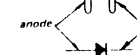
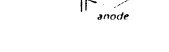
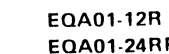
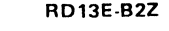
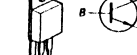
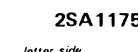
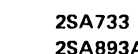
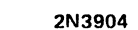
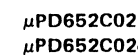
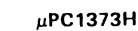
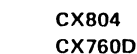
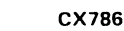
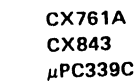
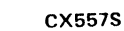
short long

S

[TUNER
[ACTIVE FILTER.



N

[DETECTOR]
[INF AMP]

Sony Corporation
TV and Consumer Video Group
© 1981

81C0446-1
Printed in Japan

MC-Service

SONY TRINITRON® COLOR TV KV-1946R/RM-703

US Model


Chassis No. : SCC-342A-A


SCHEMATIC DIAGRAM







WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.



SAFETY-RELATED COMPONENT WARNING !!




COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

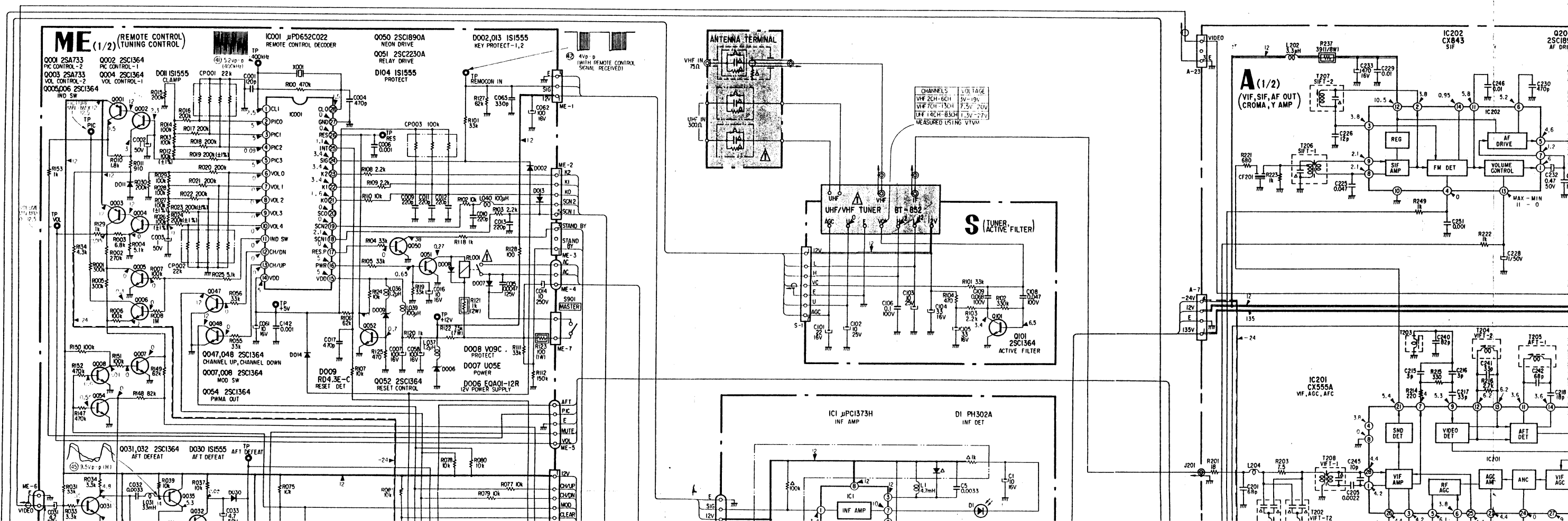
- All mounting diagrams are viewed from conductor side.
 - All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics. pF : μF
 - All resistors are in ohms, $\frac{1}{2}\text{W}$ unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$
 -  : nonflammable resistor.
 -  : internal component.
 -  : panel designation.
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 - The components identified by  in this manual have been carefully factory selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
 - When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by  and repeat the adjustment until the specified value is achieved. (Refer to R563 adjustment on page 16).
- When replacing the part in below table, be sure to perform the related adjustment.

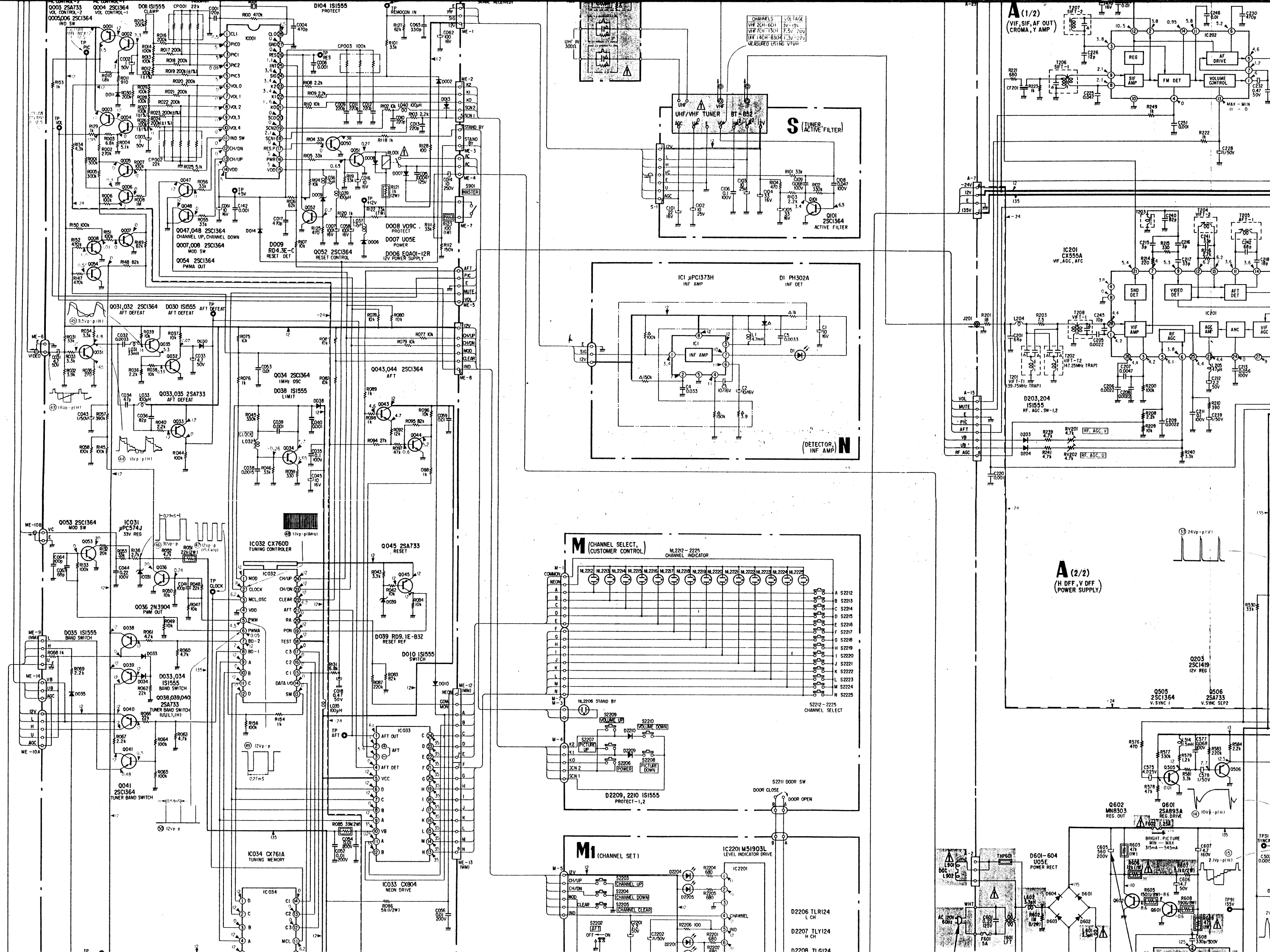
KV-1946R

Part replaced ()	Adjustment ()
C505, D502, IC501, R508, R528, R529, R563	R563 adjustment

- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
-  : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- Voltages on ME and S board are taken with set selected to CH-A (VHF HIGH) position.
-  : B+ bus.
-  : B- bus.

MC-Service





4

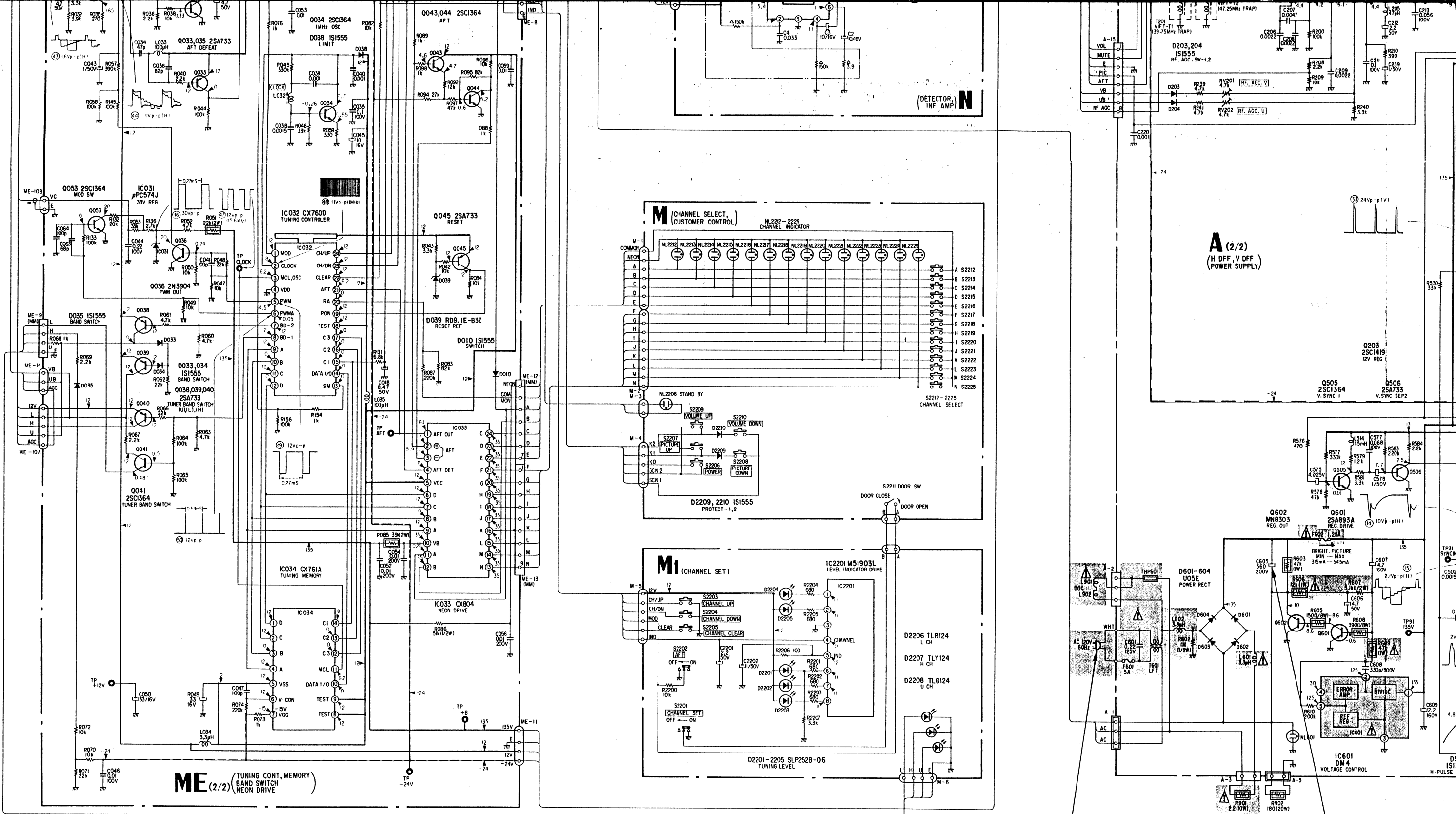
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MC-Service

CAUTION:
This set is equipped with a polarized AC power cord plug (one blade of the plug is wider than the other), be sure to use it having the specified part number and connect it as shown in this diagram.

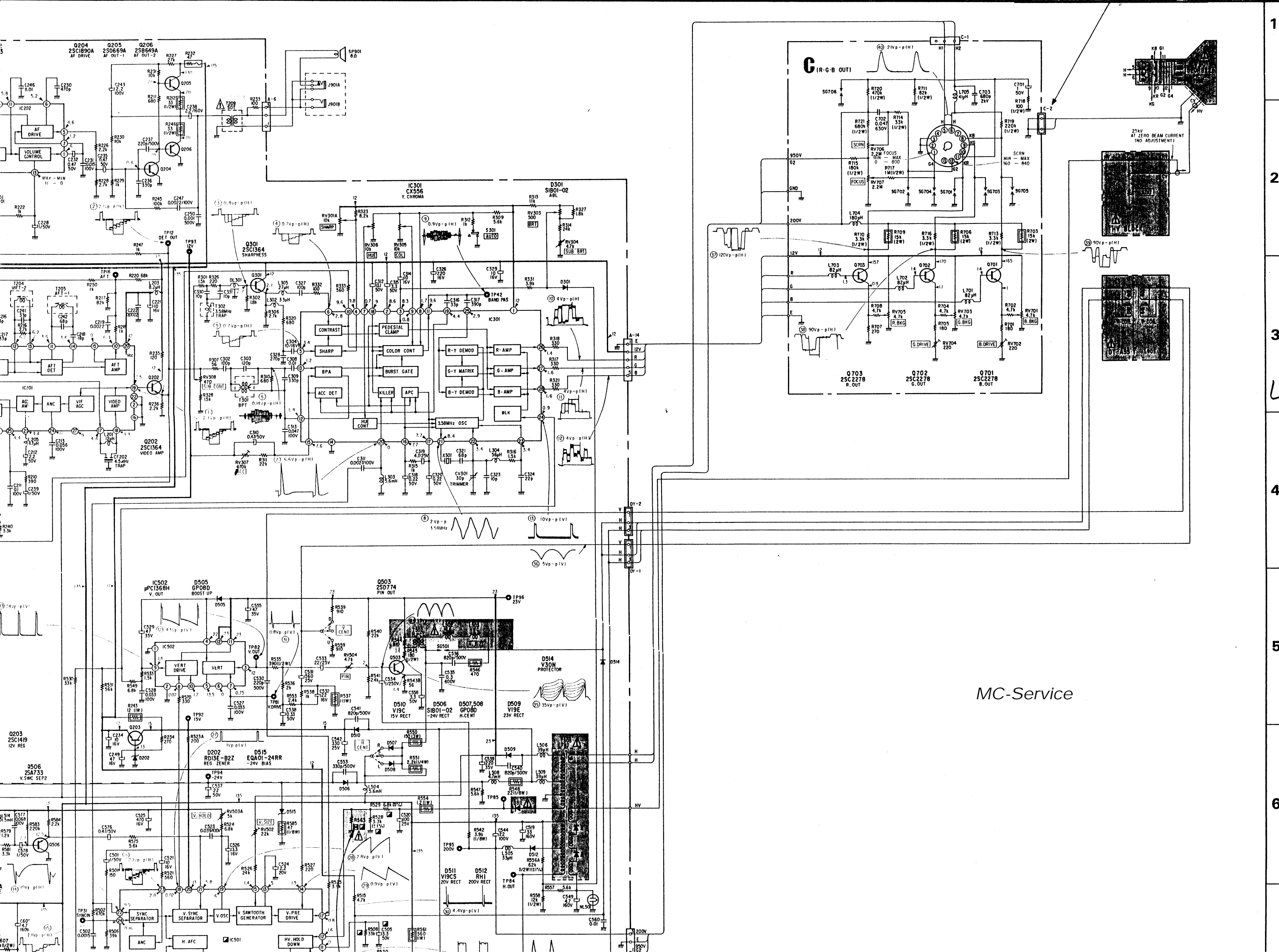
CAUTION:
When taking a broken fuse (F601, C605) to avoid shock hazard.

CIRCUIT BOARDS LOCATION

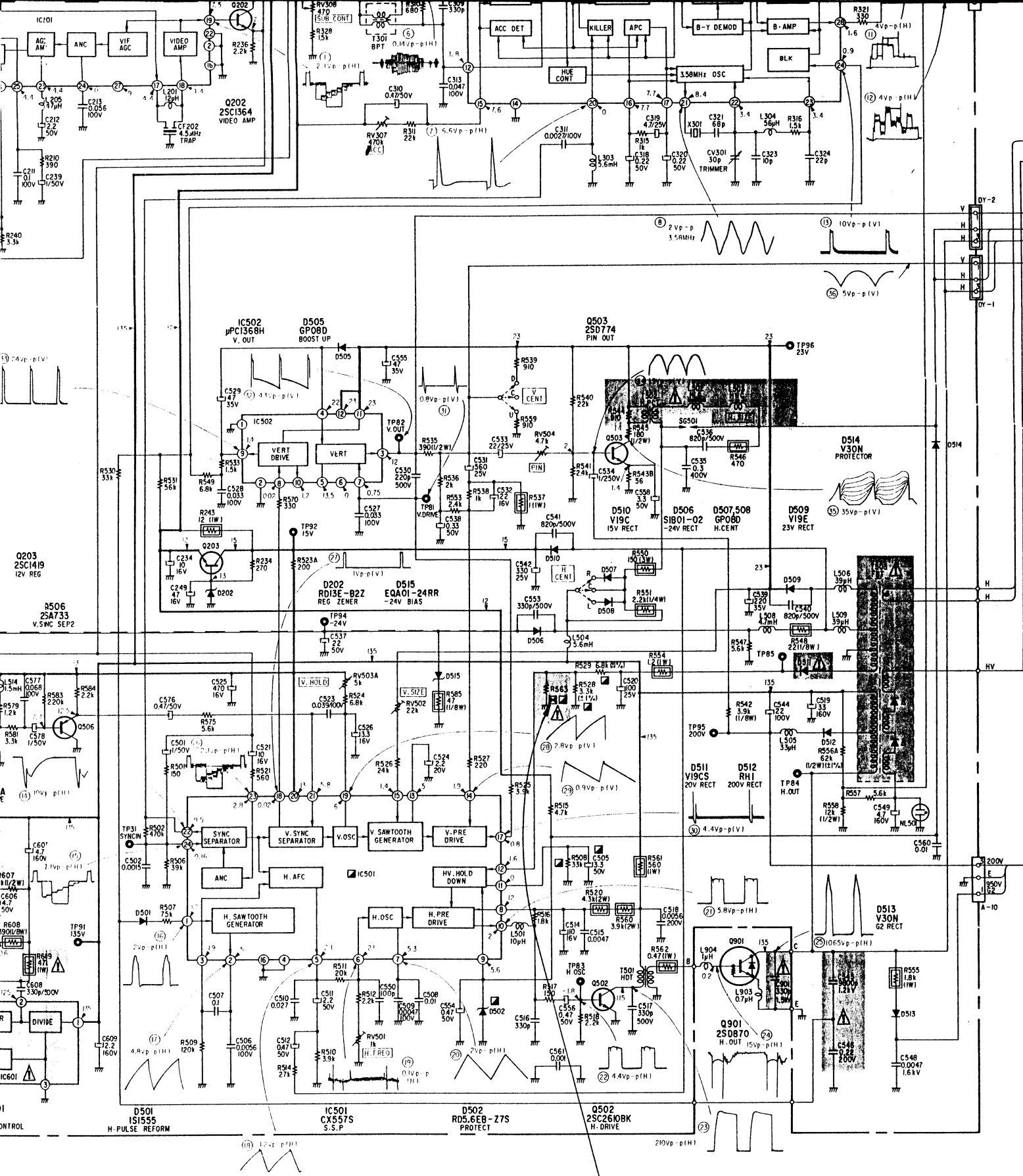
The diagram illustrates the internal layout of a chassis with the following components labeled:

- N Board**: Located at the top left.
- ME Board**: Located below the N Board.
- M1 Board**: Located to the left of the ME Board.
- M Board**: Located below the M1 Board.
- S Board**: Located below the M Board.
- A Board**: A large board located at the bottom of the chassis.
- C Board**: A board located on the right side of the chassis.

I	J	K	L	M	N	O	P
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MC-Service



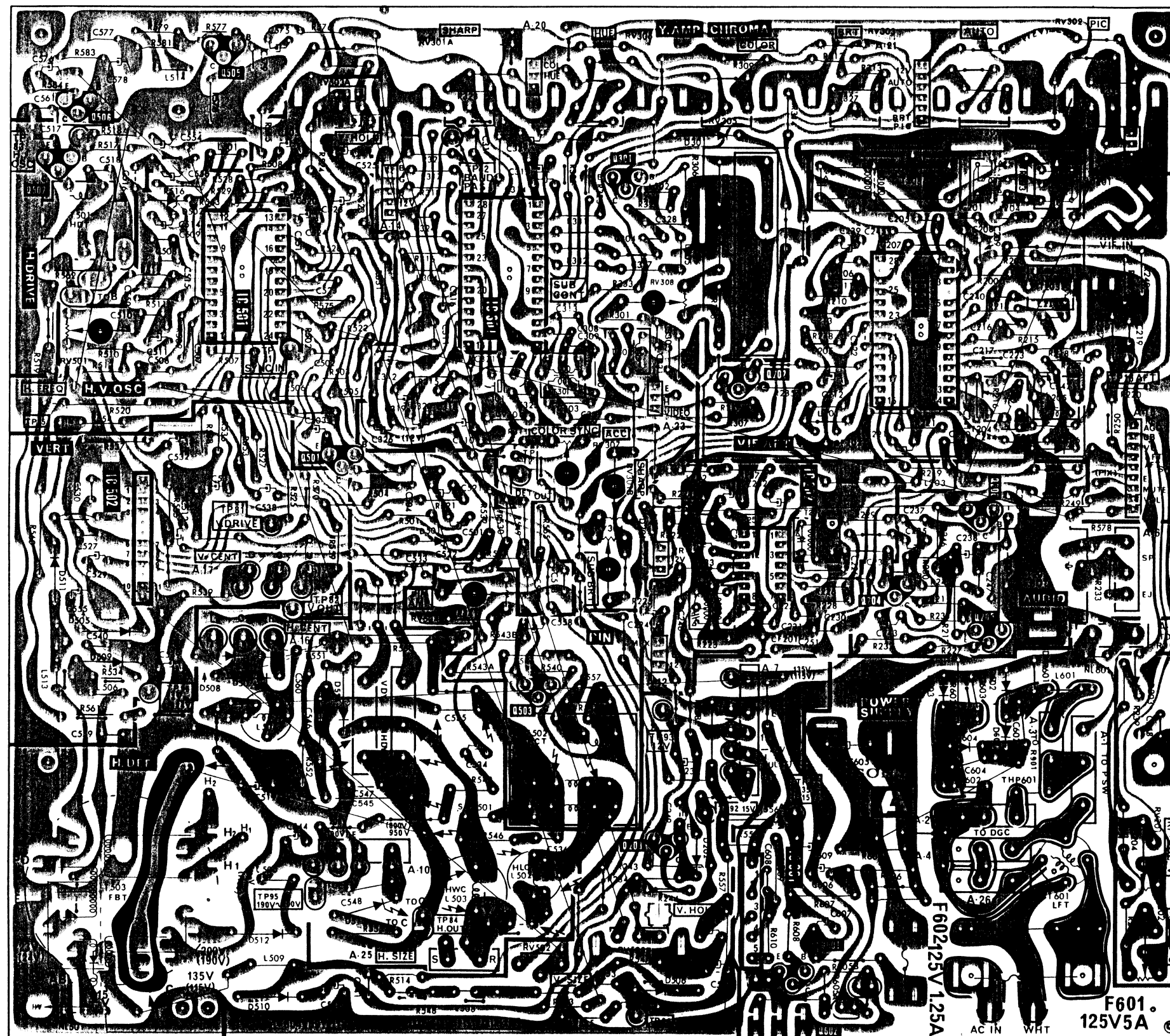
MC-Service

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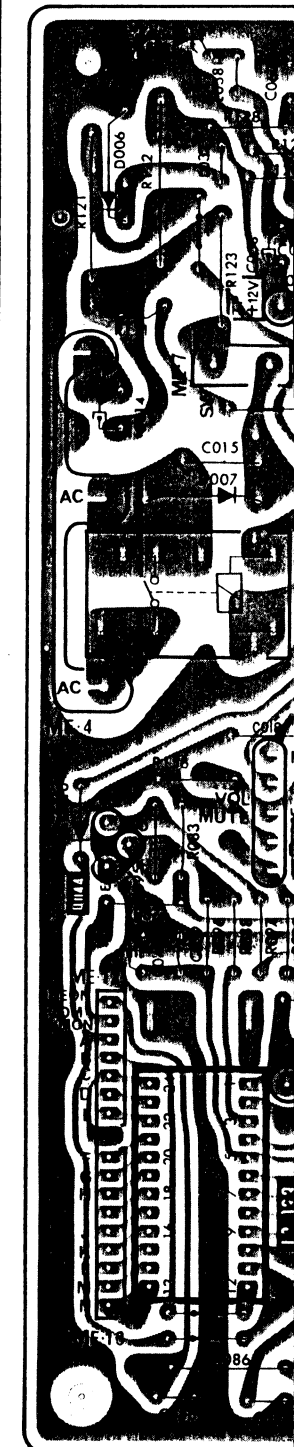
VIF, SIF, AF OUT
CHROMA, Y. AMP
H DEF, V DEF
POWER SUPPLY

REMOTE CONTROL
TUNING CONTROL
MEMORY, NEON DRIVE
BAND SWITCH

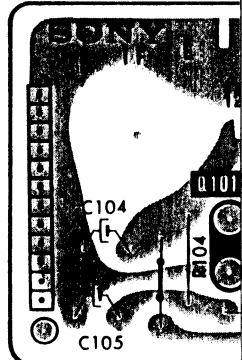
Q-IC	D	ADJ
505		
506	301	
502 301	502	
IC301 IC501		RV308
IC201		RV501
202		
		CV301
		RV307
206		
IC502	501	T207
IC202	511	RV304
204		T206 RV504
205	505 203 508 602 509 603 507	
503	514 601 604	
203	204 202	
IC601	513 512	RV201 L503
601		RV202
602	506 510 515	RV502
Q-IC	D	ADJ



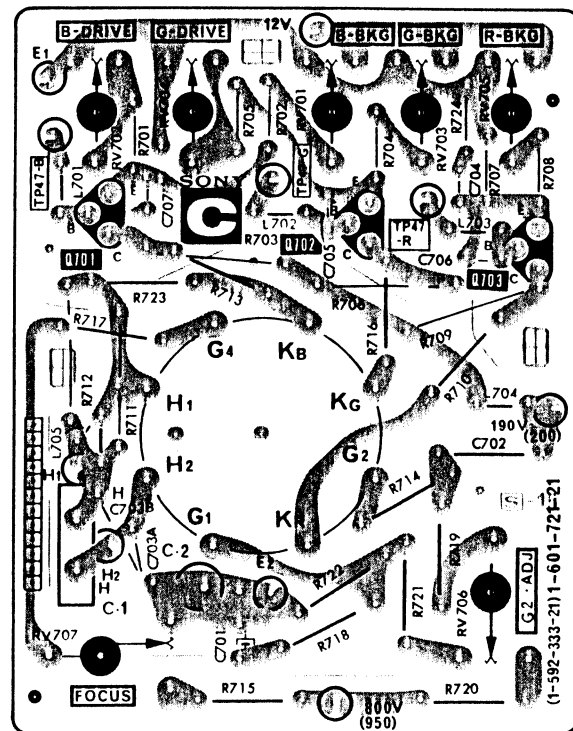
Q, IC	D
	005
002	
052 001	009
004	
003	006
1C001	
	013
005	
050 006	
	007 014
051	008 002
047	
048	
008	
032	
	039
054	
035	
045	
	038
033	
031	
034	010 L 032
044	
1C032	
1C031	
036	
053	
043	
041	
1C034	
1C033	
040	
038	
	032
	034
039	
Q, IC	D



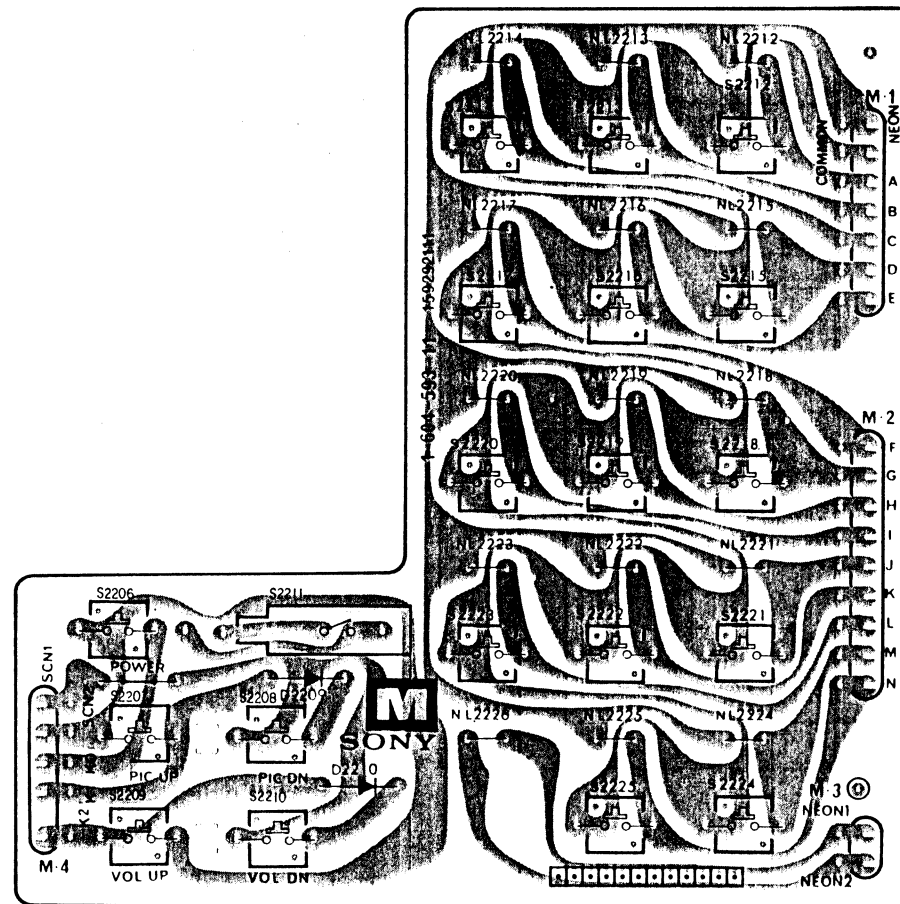
S [TUNER
ACTIVE FILTER]



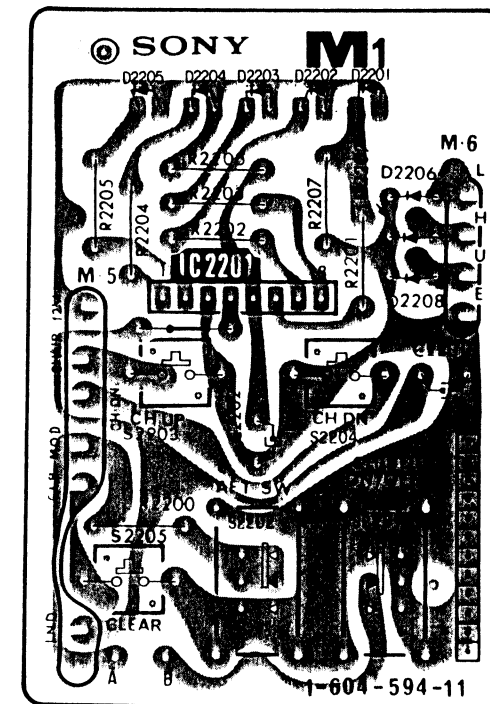
[R.G.B OUT]



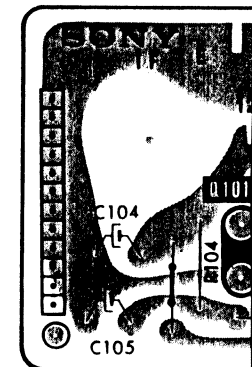
[CHANNEL SELECT]
[CUSTOMER CONTROL]



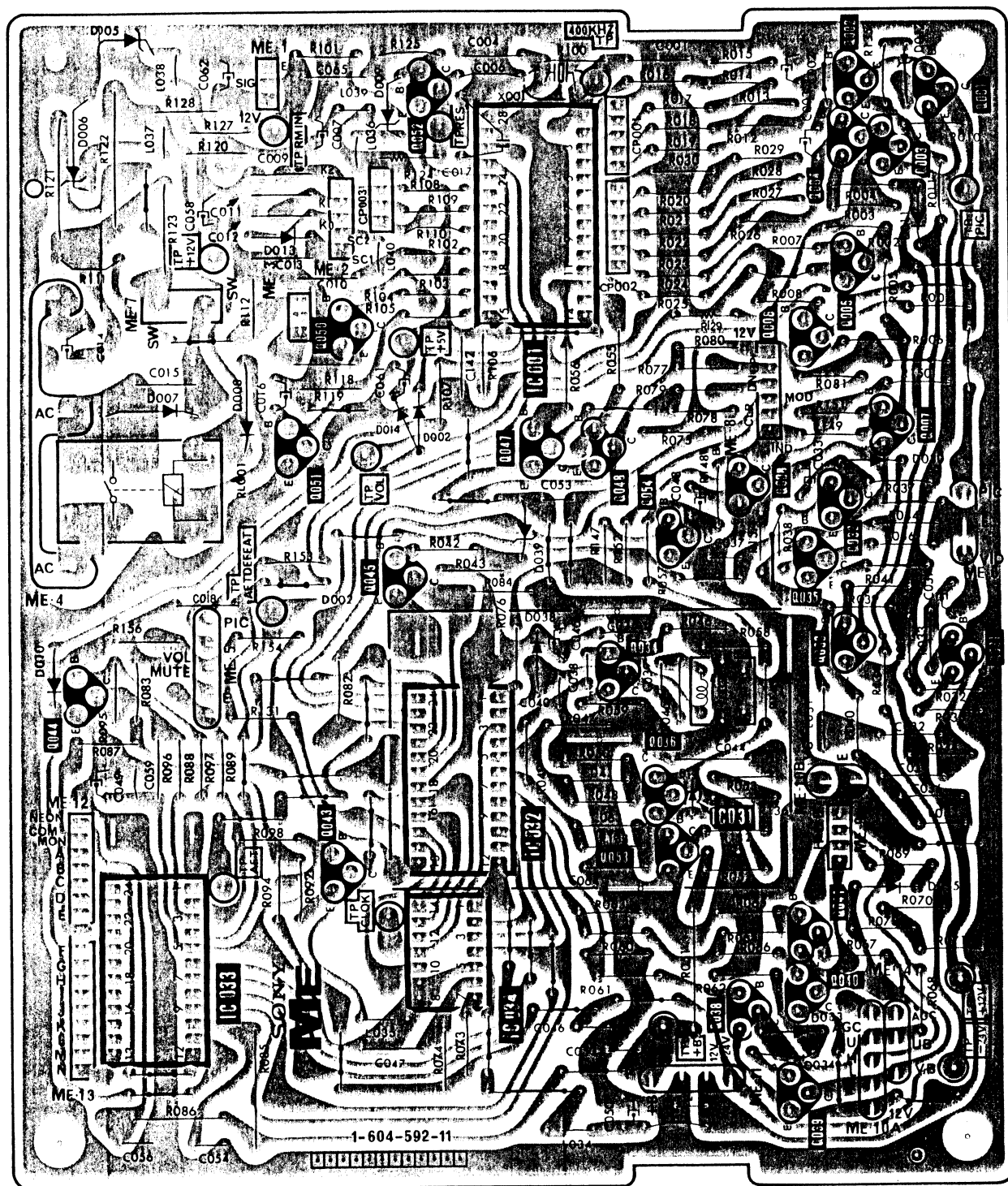
[CHANNEL SET]



[TUNER
[ACTIVE FILTER

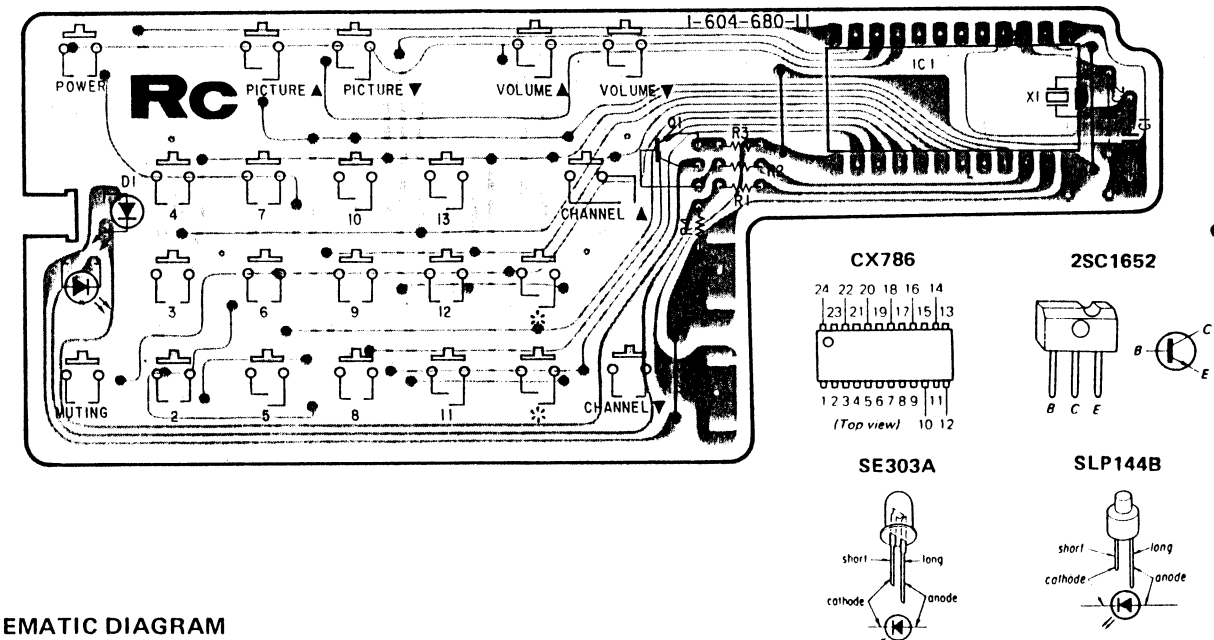


CONTROL
CONTROL
JEON DRIVE
CH

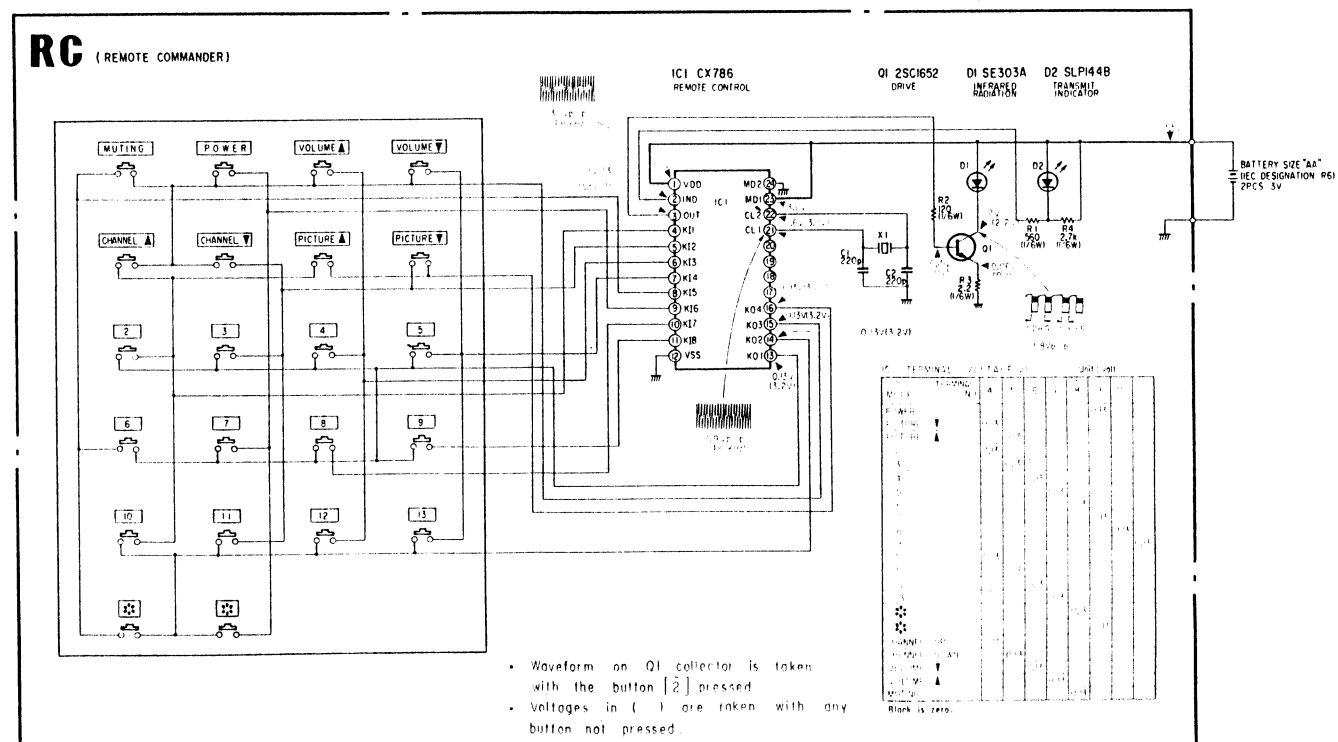
**REMOTE COMMANDER RM-703**

MOUNTING DIAGRAMS

– Conductor Side –

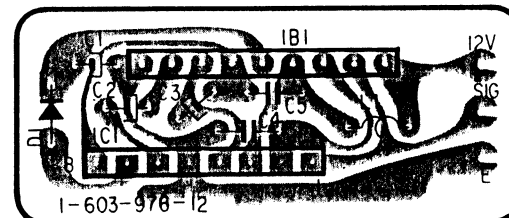
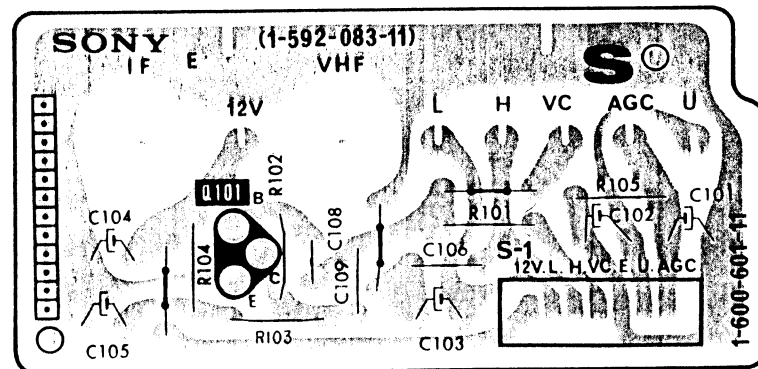


SCHEMATIC DIAGRAM

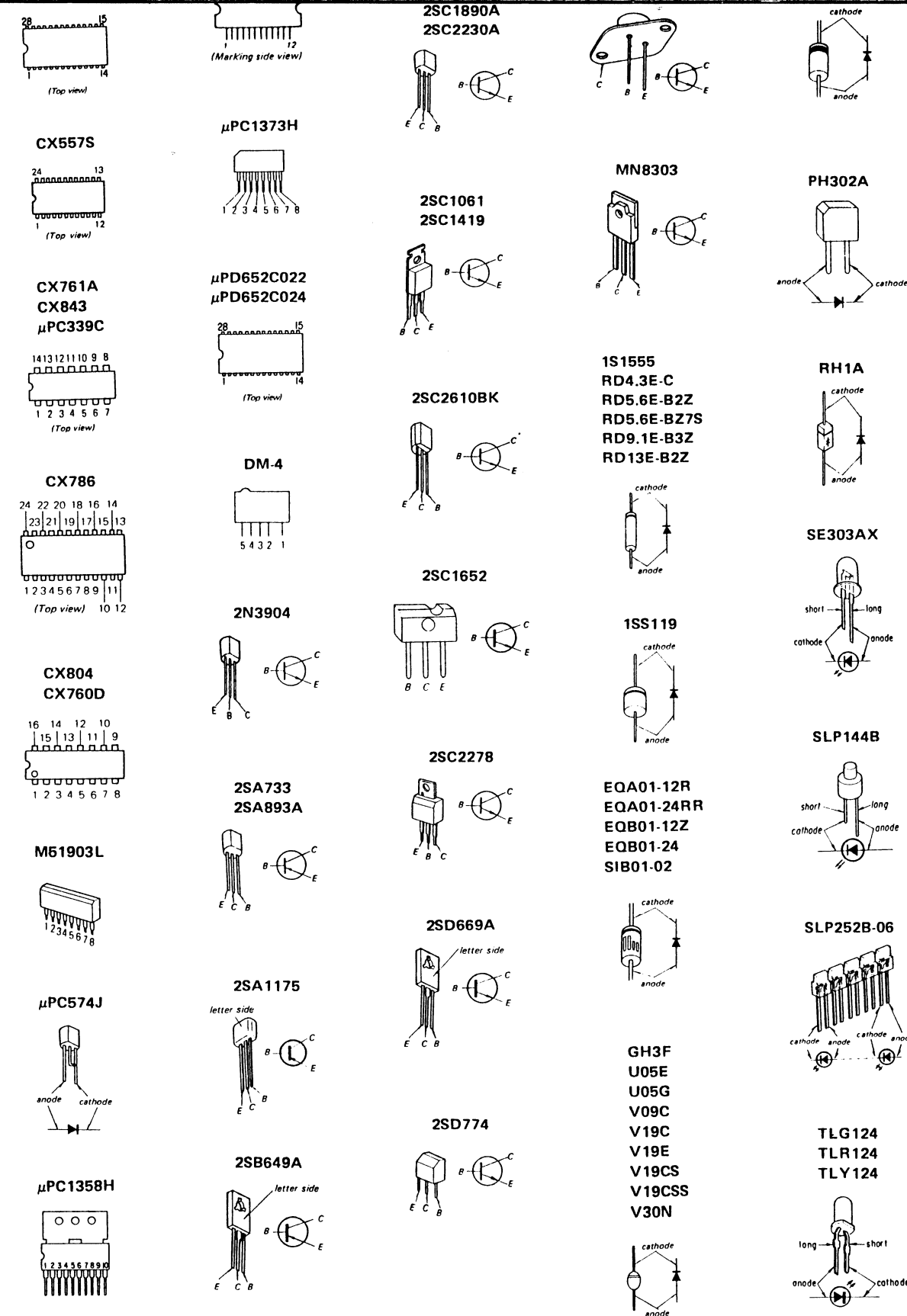


S [TUNER
ACTIVE FILTER]

N [DETECTOR
INF AMP]



MC-Service



9-962-711-71

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TV and Consumer Video Group
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81C0446-1
Printed in Japan

SONY TRINITRON® COLOR TV

KV-1746R/RM-703

US Model

Chassis No. : SCC-341A-A

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

- All mounting diagrams are viewed from conductor side.
- All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics. pF : μF
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000k Ω
- \square : nonflammable resistor.
- Δ : internal component.
- \square : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by \blacksquare in this manual have been carefully factory selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by \blacksquare , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by \blacksquare and repeat the adjustment until the specified value is achieved. (Refer to R563 adjustment on page 16). When replacing the part in below table, be sure to perform the related adjustment.

KV-1746R

Part replaced (\blacksquare)	Adjustment (Δ)
C505, C520, C554, D502, IC501, R508, R515, R528, R529, R554, R563	R563 adjustment

- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- \square : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- Voltages on ME and S board are taken with set selected to CH-A (VHF HIGH) position.
- — : B+ bus.
- - - - : B- bus.

SCHEMATIC DIAGRAM

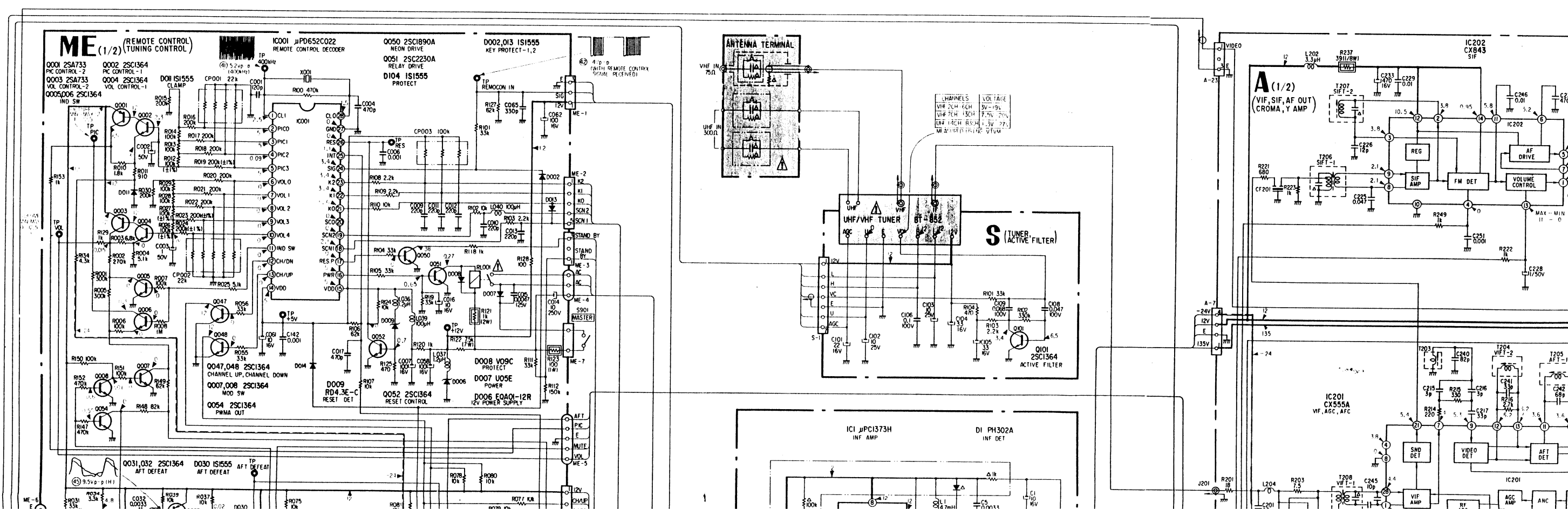
MC-Service

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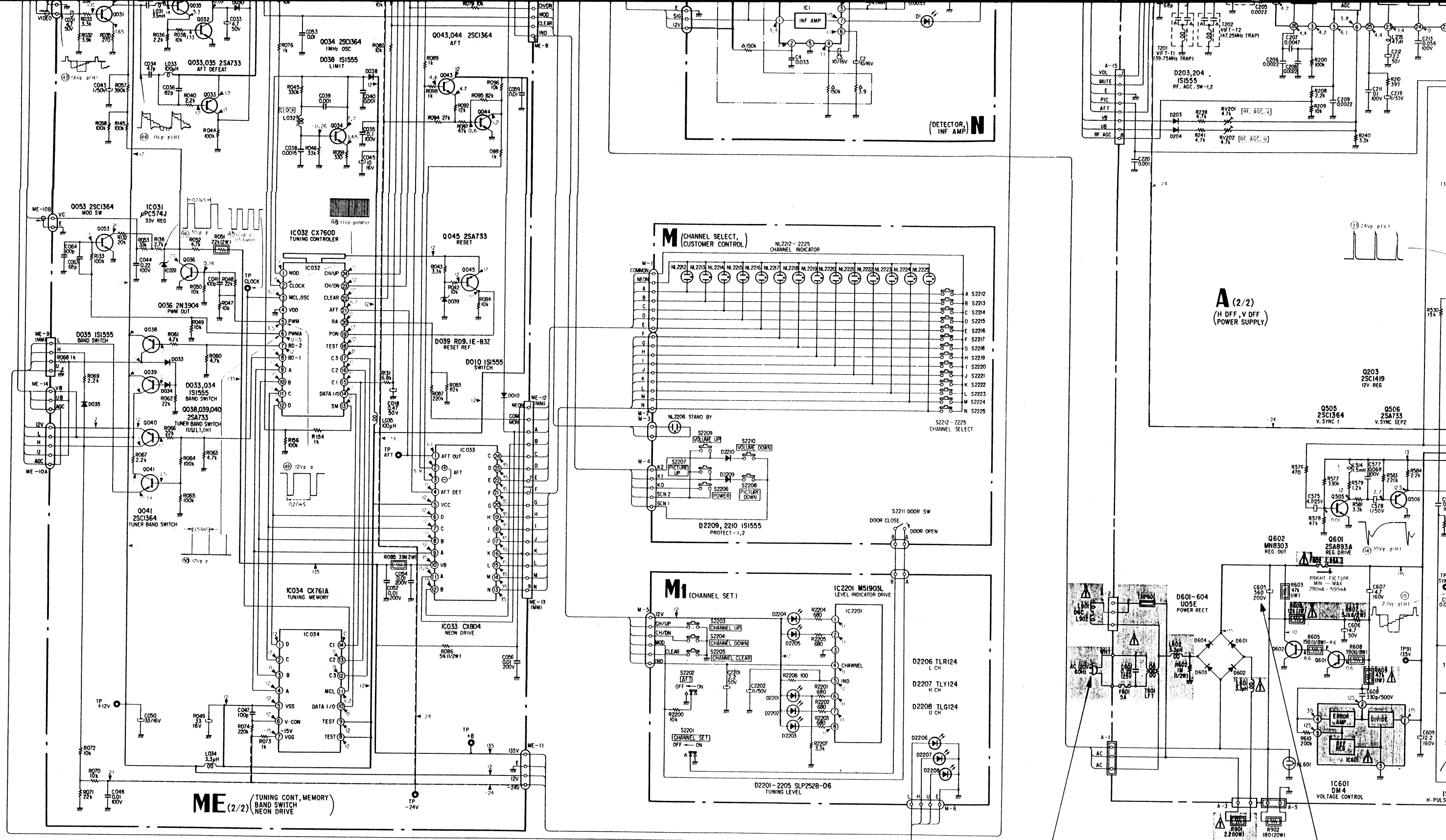
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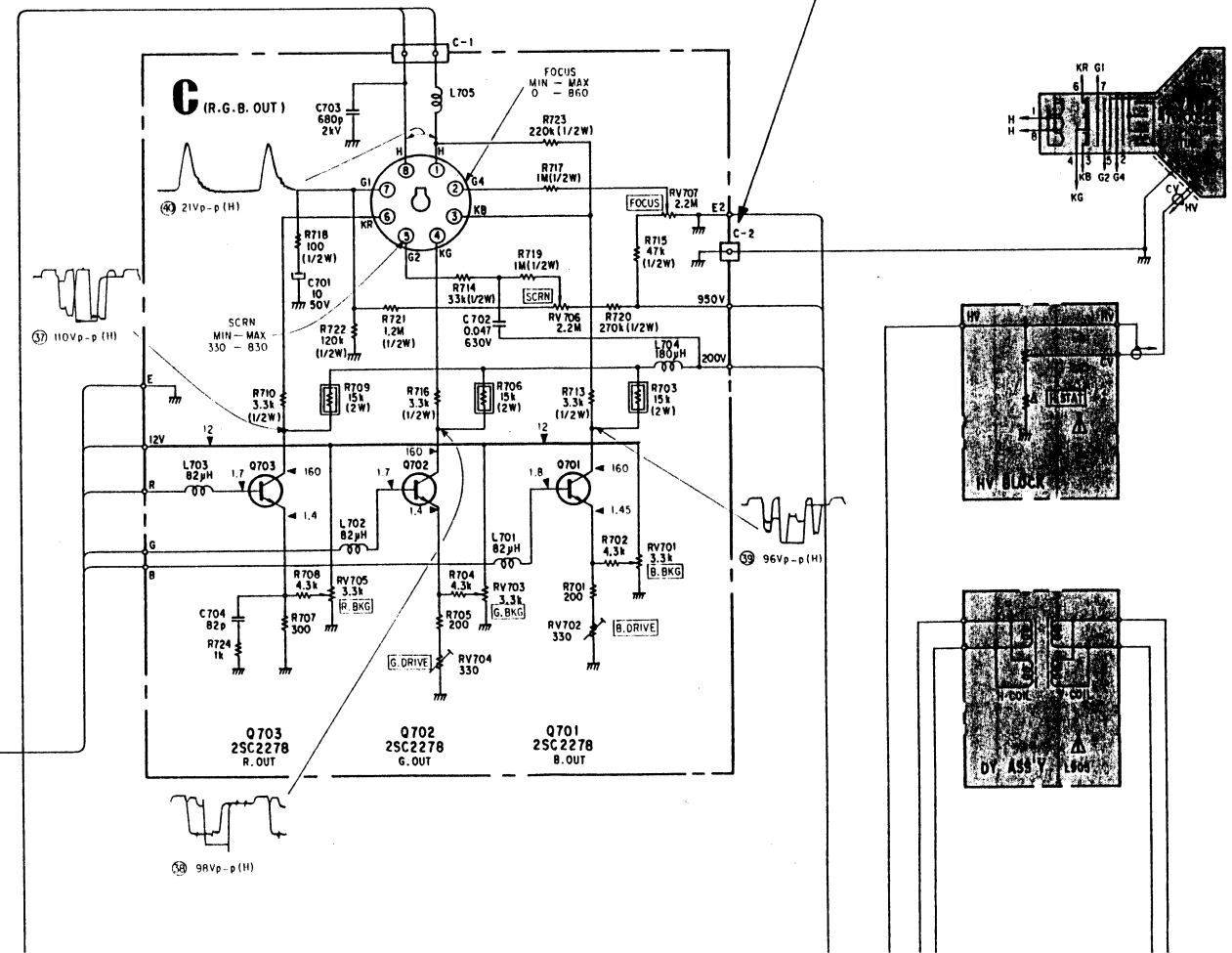
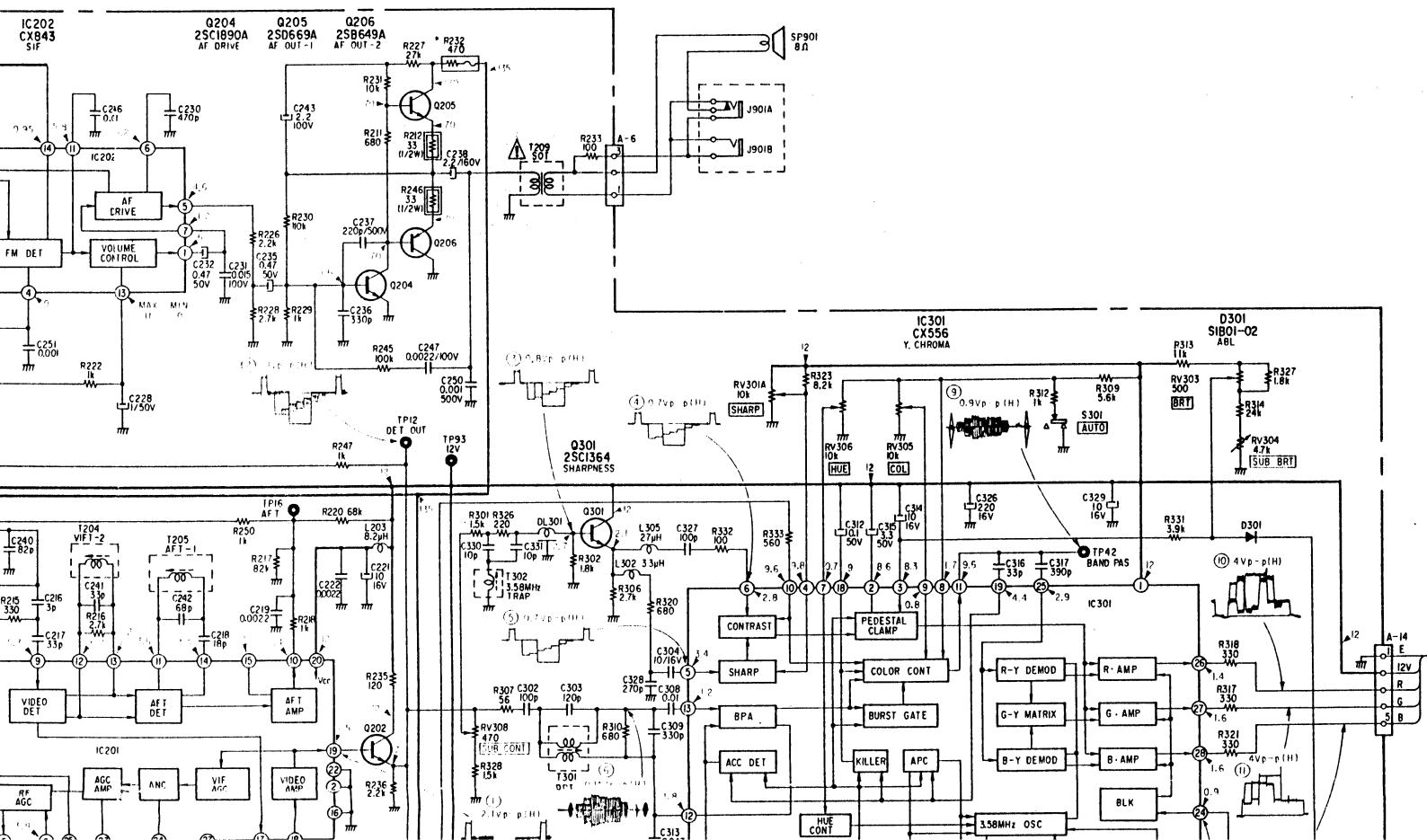
MC-Service

CAUTION:
This set is equipped with a polarized AC power cord plug (one blade of the plug is wider than the other), be sure to use it having the specified part number and connect it as shown in this diagram.

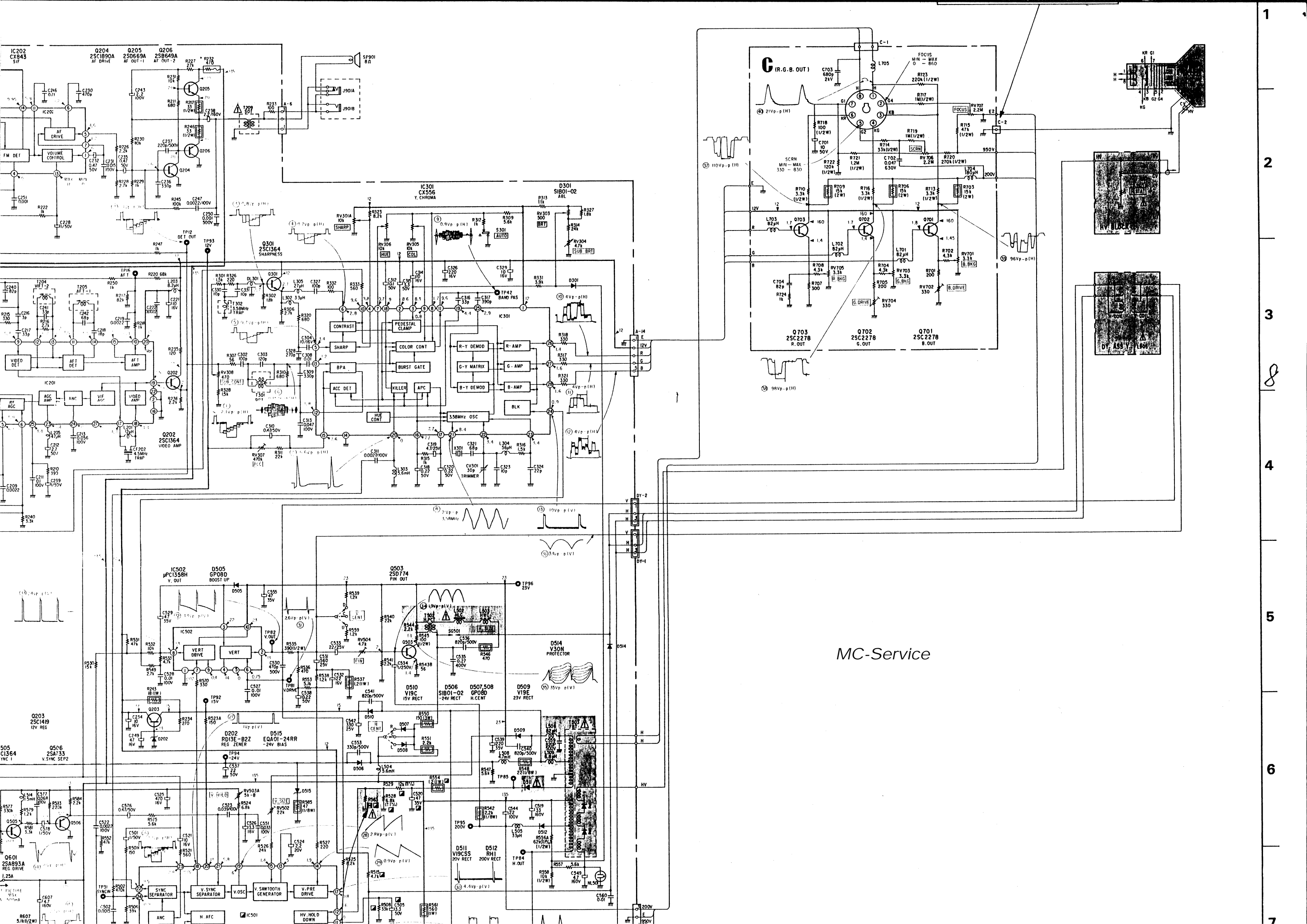
CAUTION:
When taking a broken fuse (F602) C605 to avoid shock hazard.

CIRCUIT BOARDS LOCATION

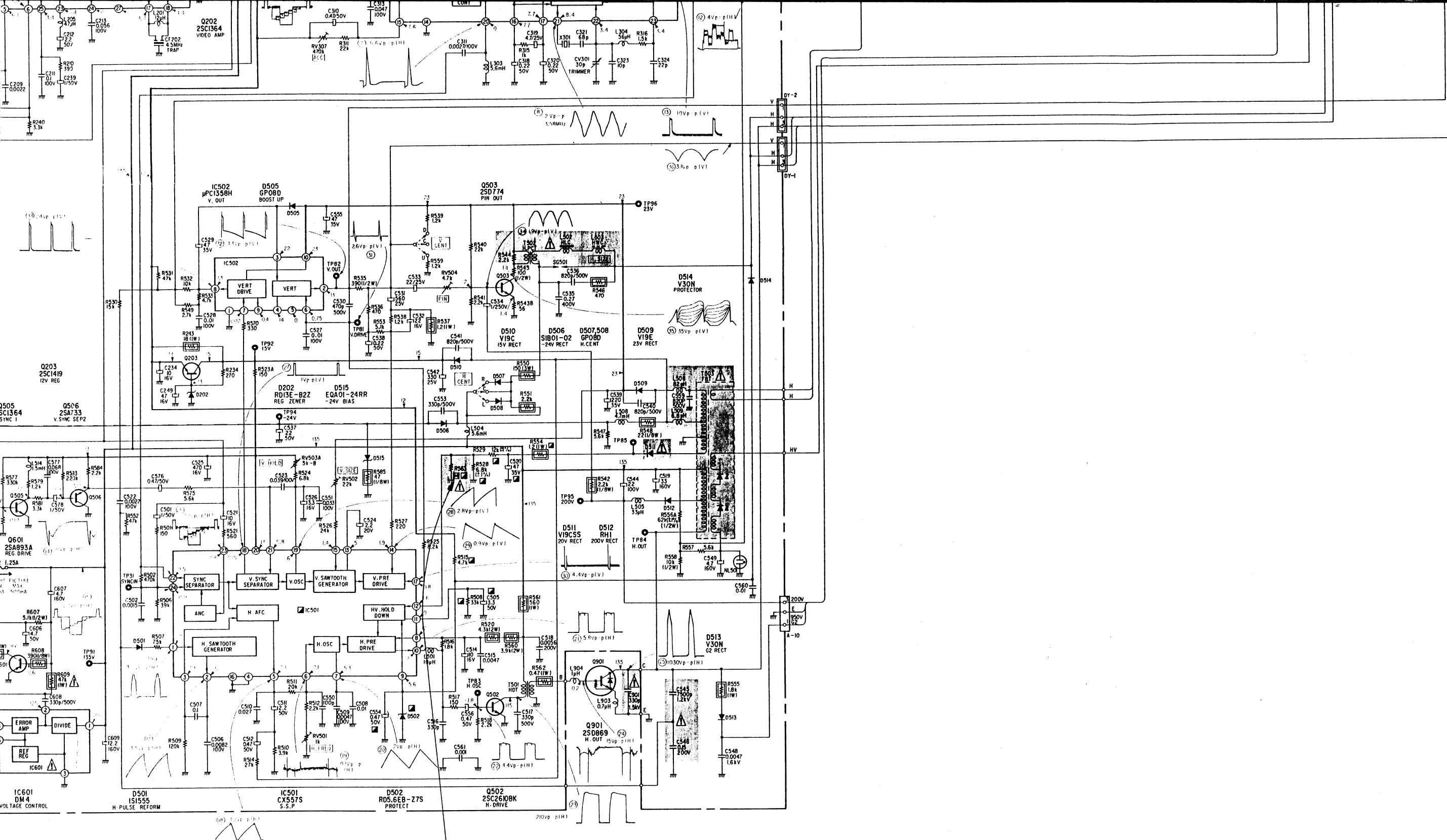
A perspective cutaway diagram of a rectangular electronic enclosure. The diagram shows the internal layout of various circuit boards. On the left side, there is a vertical stack of boards: the N Board at the top, followed by the M1 Board, M Board, and S Board. The ME Board is located on the top surface of the enclosure. The A Board is a large, flat board at the bottom. The C Board is a rectangular board mounted on the right side. Various components like connectors and a circular feature are visible on the interior surfaces.



CAUTION:
Be sure to connect C-2 connector for safety.



MC-Service



WARNING:
Disconnecting a broken fuse (F602) off, discharge across
avoid shock hazard.

☒ : See page 16, 17.

SONY TRINITRON® COLOR TV

KV-1204/1215 US Model

Chassis No.

SCC-110B-A (KV-1204)

SCC-110A-A (KV-1215)

SCHEMATIC DIAGRAM

WARNING!!

TO ELIMINATE SHOCK HAZARD AND PROTECT EQUIPMENT WHEN SERVICING THE SET WITH THE COVERS REMOVED, MAKE SURE THAT THE SET IS PLUGGED INTO A SUITABLY-RATED ISOLATION TRANSFORMER.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

Note: The components identified by shading are critical for safety. Replace only with part number specified.

Note:

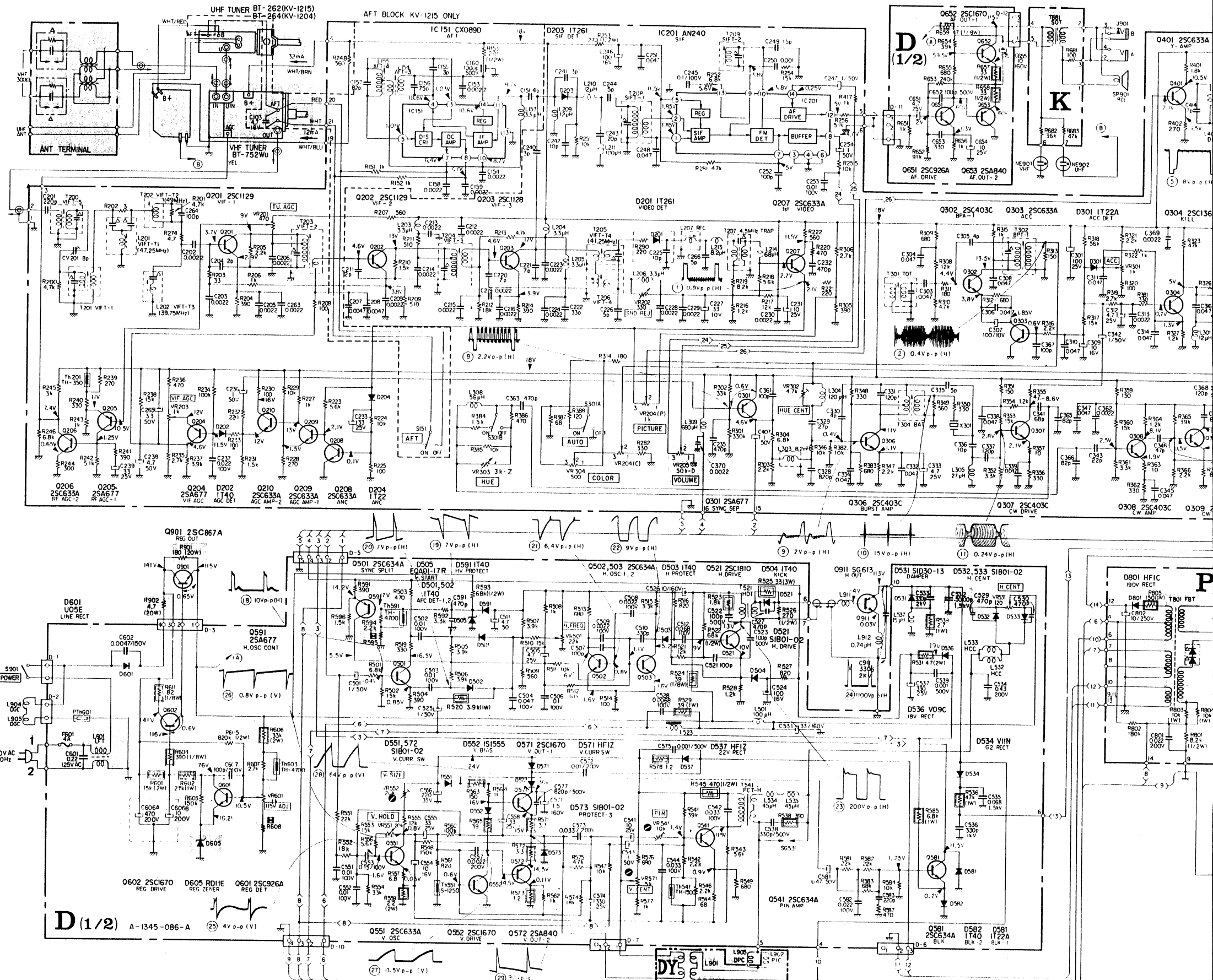
- All capacitors are in μF unless otherwise noted. $\text{p}=\mu\text{F}$.
- All resistors are in ohms, $1/4\text{W}$ unless otherwise noted.
- $k=1000$ $M=1000k$
- \times indicates values to be selected.
- \square indicates factory selected values.
- \triangle indicates internal components.
- Voltages are DC with respect to ground unless otherwise noted. Reading are with a color-bar signal applied. Voltage variations may be noted due to normal production tolerances.
- FV indicates a nonflammable resistor.
- ADJ indicates adjustable without removing cabinet.

MOUNTING DIAGRAM

Note: All mounting diagrams are viewed from conductor side.

- indicates parts or wire connection point on the conductor side.
- indicates parts or wire connection point through the component side.
- indicates parts on the conductor side.

MC-Service



CX089D
(KV-1215 only)

AN240

2SA677

2SA840

2SC403C
2SC633A
2SC634A
2SC926A

2SC867A

2SC1127

2SC1128
2SC1129

2SC1670

2SC1810

SG613

SC

Note: The components identified by shading are critical for safety. Replace only with part number specified.

Note:

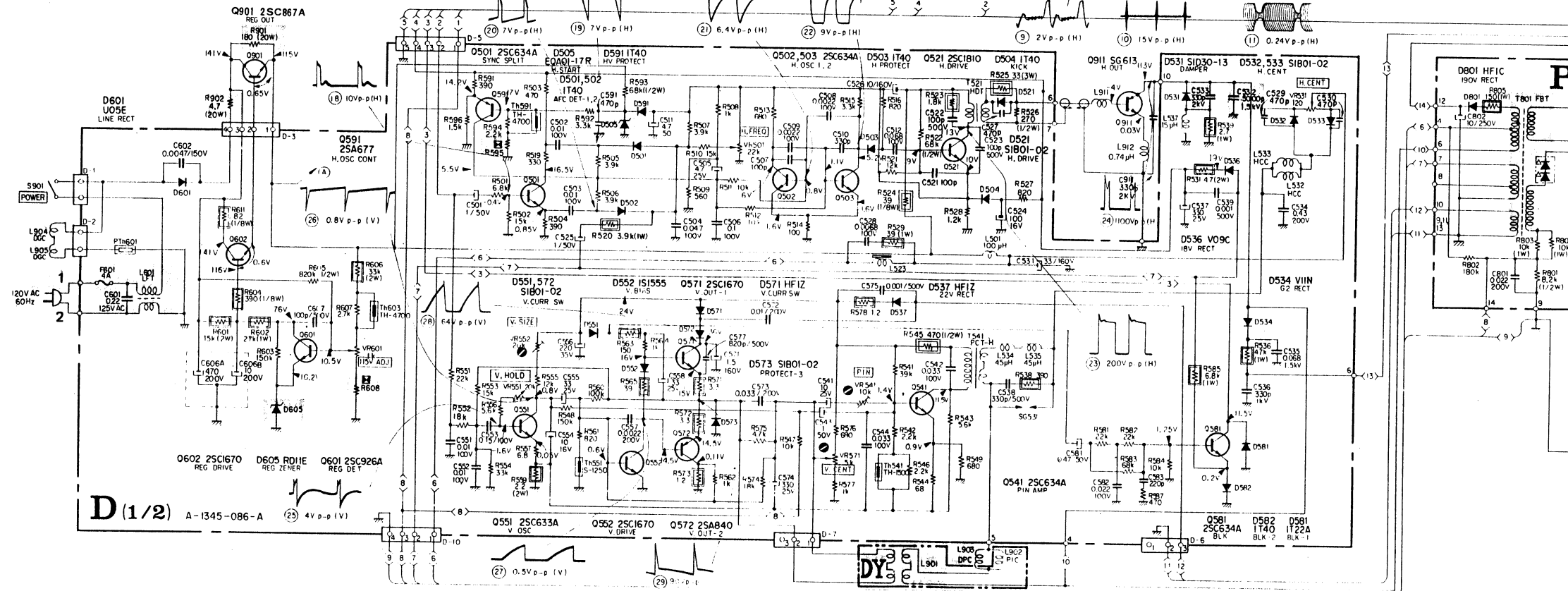
- All capacitors are in μF unless otherwise noted. $p = \mu\text{F}$.
- All resistors are in ohms, $1/4\text{W}$ unless otherwise noted.
- $k=1000$ $M=1000k$
- * indicates values to be selected.
- \square indicates factory selected values.
- \triangle indicates internal components.
- Voltages are DC with respect to ground unless otherwise noted. Reading are with a color-bar signal applied. Voltage variations may be noted due to normal production tolerances.
- PWC indicates a nonflammable resistor.
- \odot Adjustable without removing cabinet.

MOUNTING DIAGRAM

Note: All mounting diagrams are viewed from conductor side.

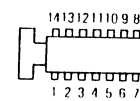
- indicates parts or wire connection point on the conductor side.
- indicates parts or wire connection point through the component side.
- indicates parts on the conductor side.

MC-Service



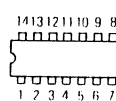
SC

CX089D
(KV-1215 only)



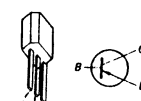
(Top view)

AN240

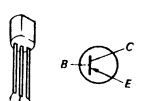


(Top view)

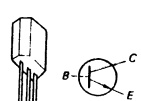
2SA677



2SA840



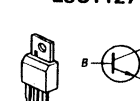
2SC403C
2SC633A
2SC634A
2SC926A



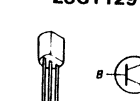
2SC867A



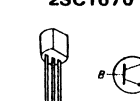
2SC1127



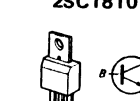
2SC1128
2SC1129



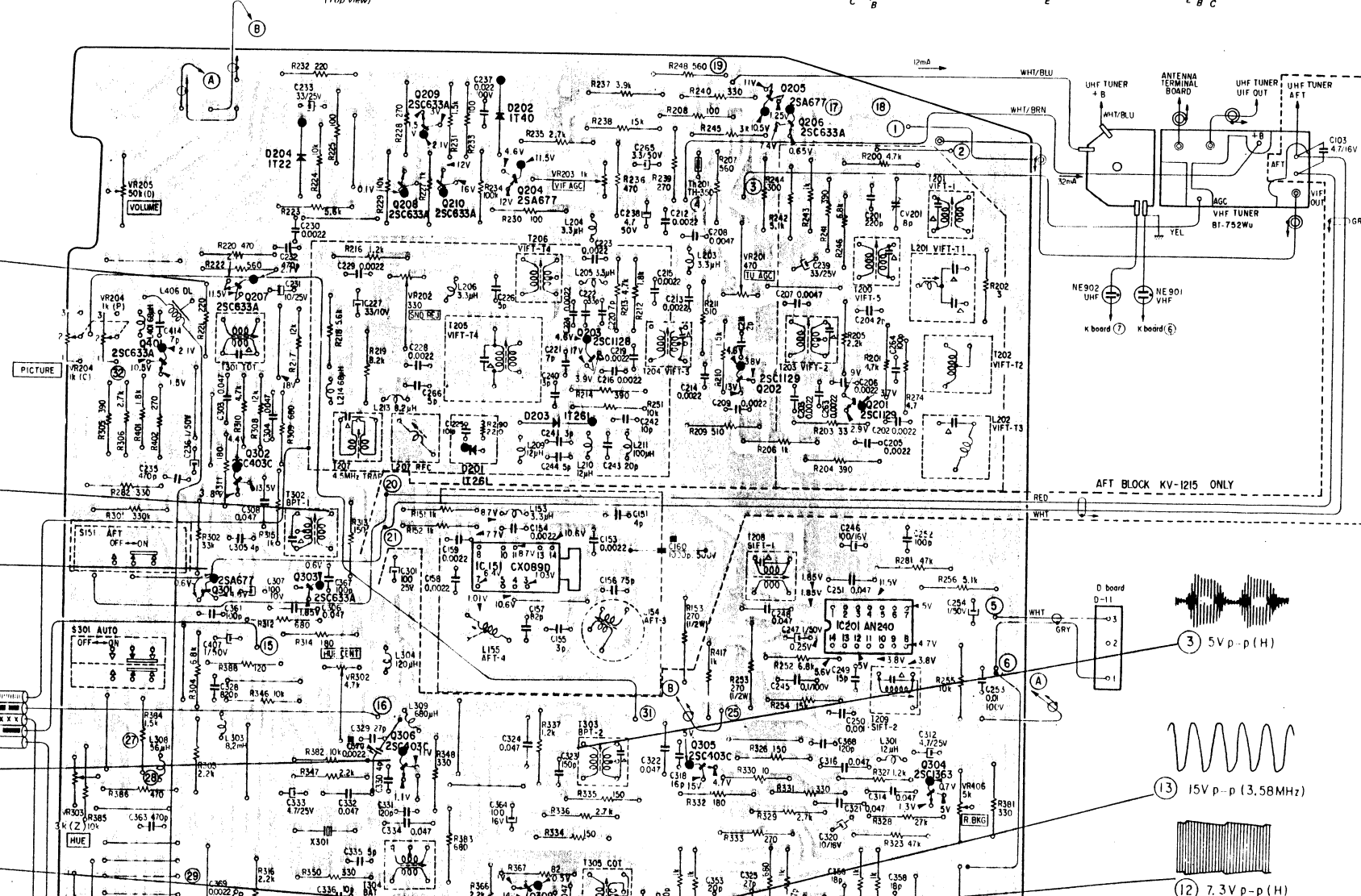
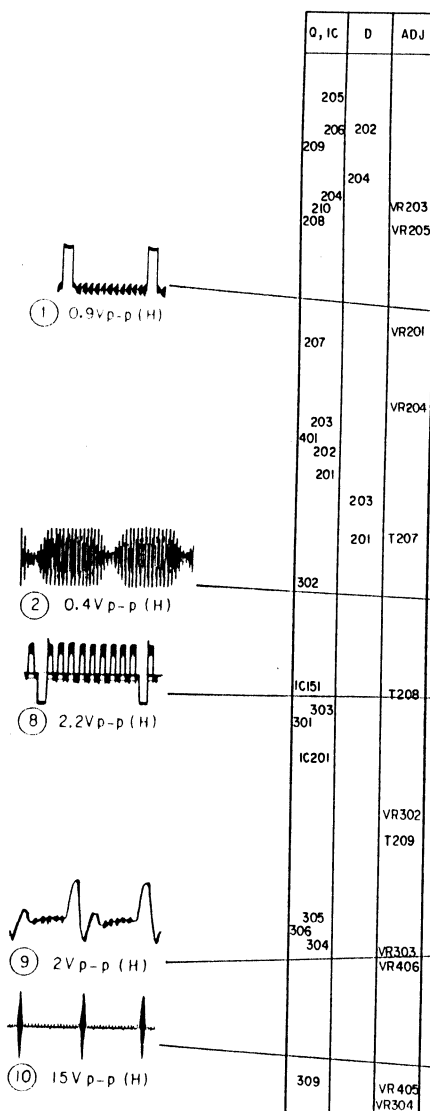
2SC1670



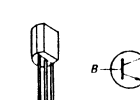
2SC1810



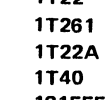
SG613



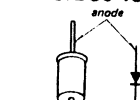
2SC1363



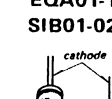
1T22
1T261
1T22A
1T40
1S1555
RD11E



SID30-13



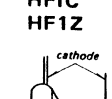
EQAO1-17R
SIB01-02



V09C
VIIN
U05E



HFIC
HF12



(24) 1100Vp-p (H)

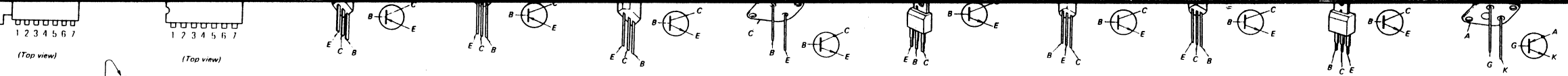
(28) 64Vp-p (V)

(29) 90Vp-p (V)

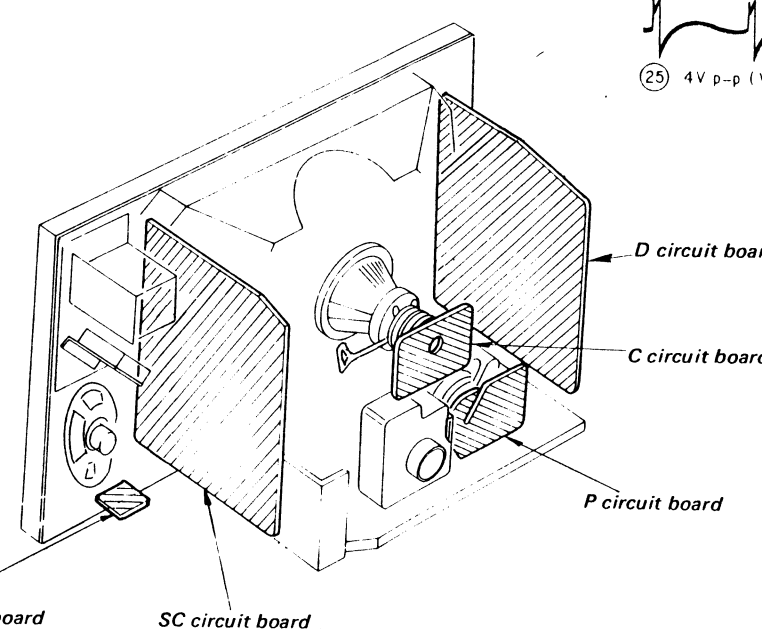
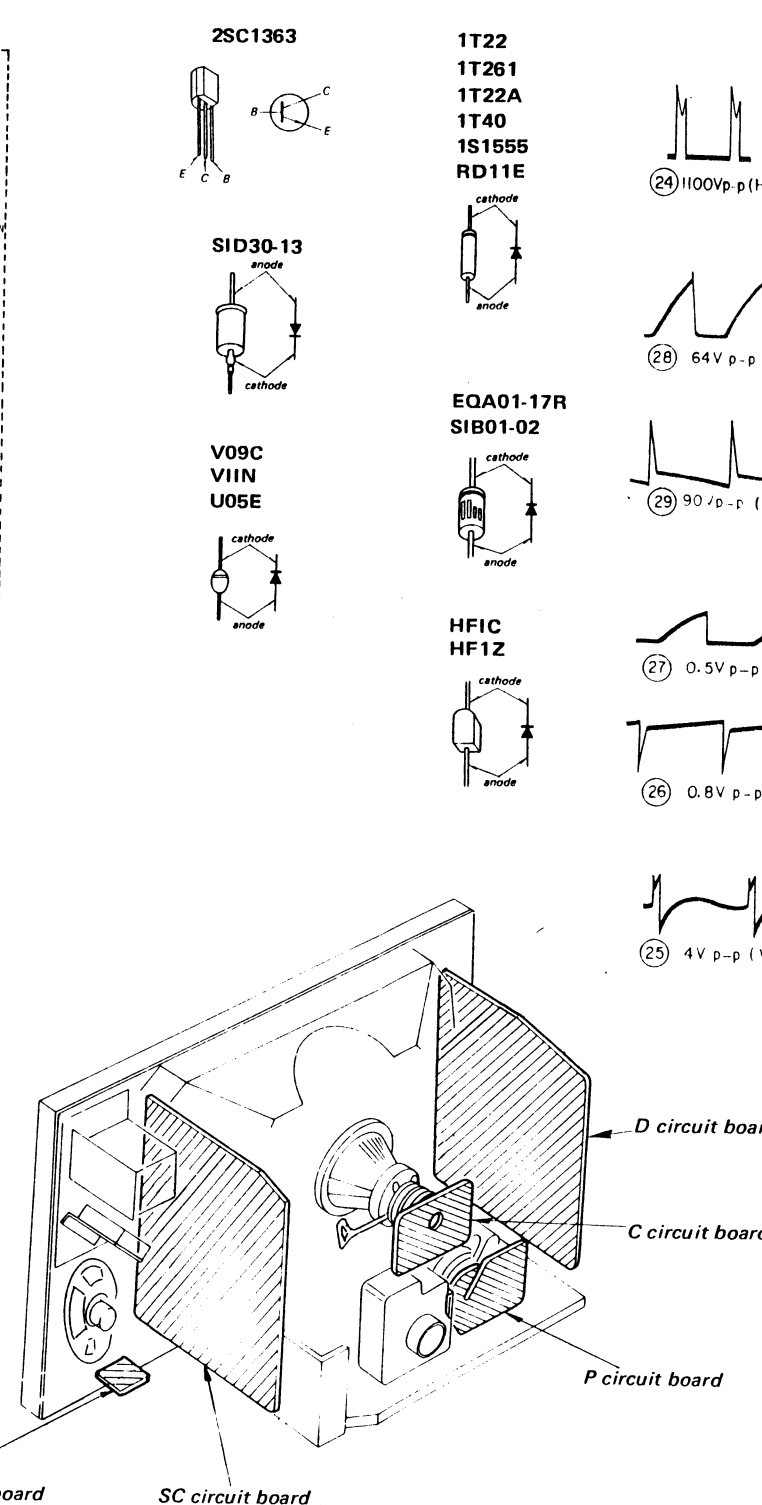
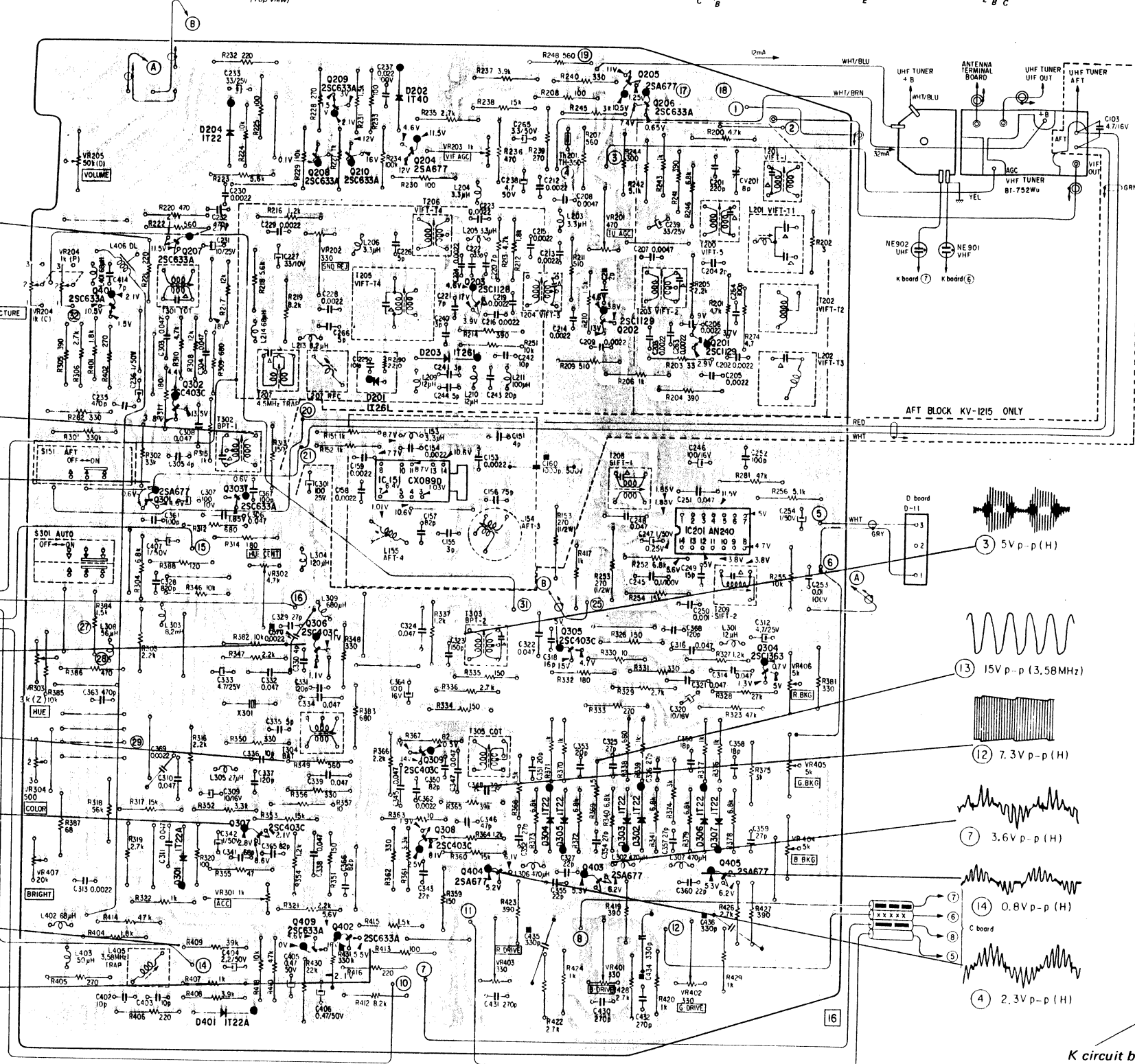
(27) 0.5Vp-p (V)

(26) 0.8Vp-p (V)

(25) 4Vp-p (V)

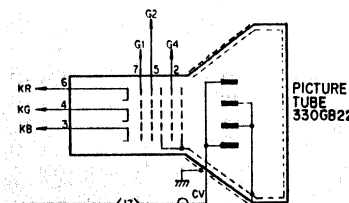


O, IC	D	ADJ
205		
206	202	
209		
204	VR203	
210	VR205	
208		
207	VR201	
203	VR204	
401		
202		
201		
203		
201	T207	
302		
IC151		
301	T208	
IC201		
VR302		
T209		
305	VR303	
306	VR406	
304		
309	VR405	
VR304		
305		
304		
302		
307	VR404	
308		
301	VR407	
404	VR301	
405		
403		
402		
409	L405	
	VR403	
	VR401	
	VR402	
401		

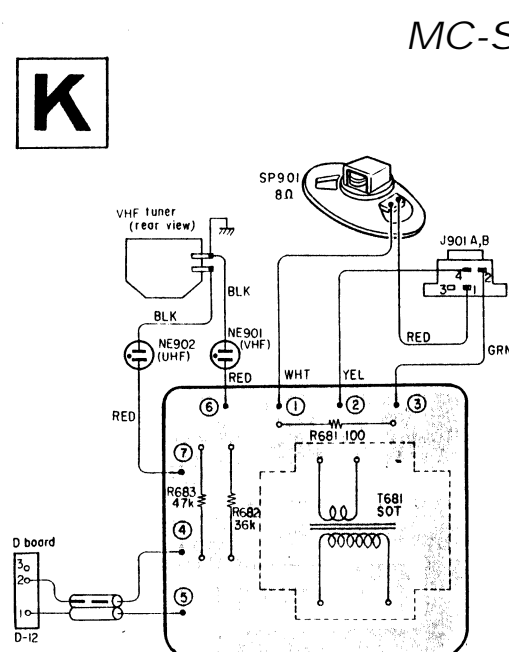
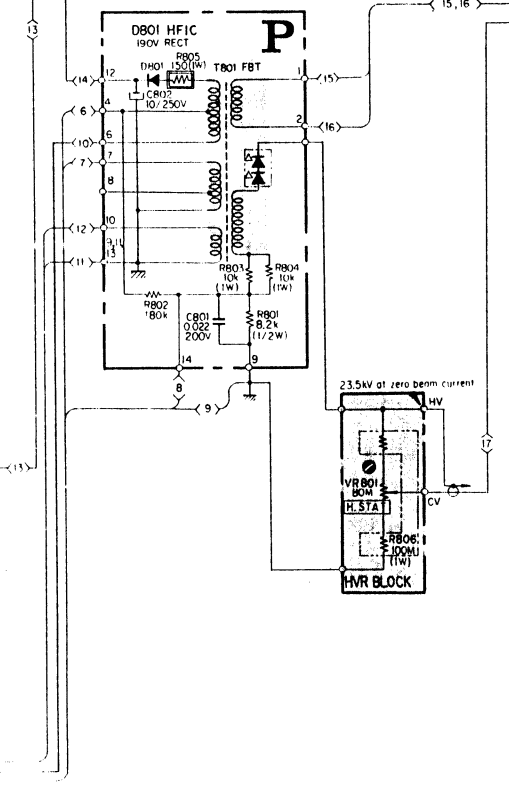
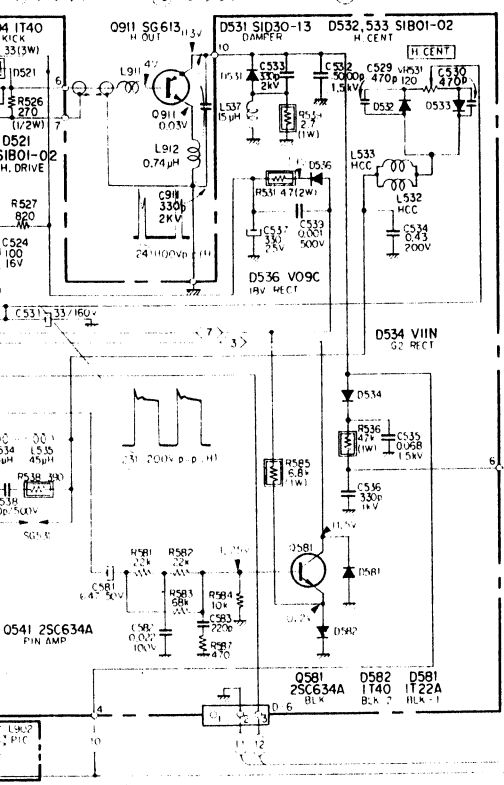
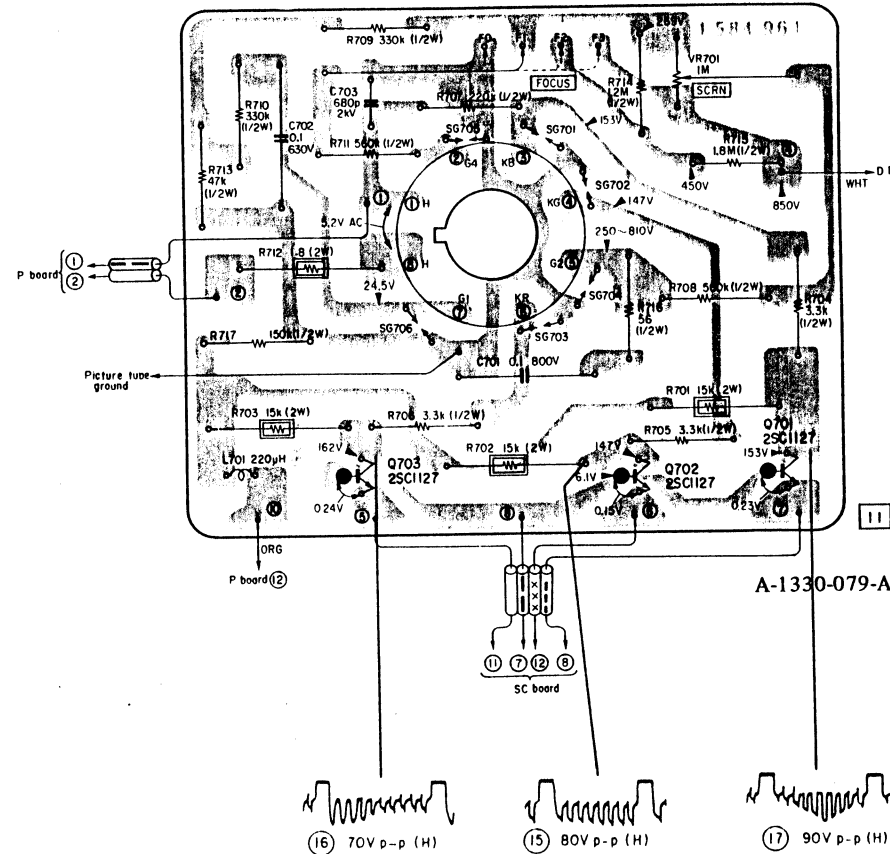
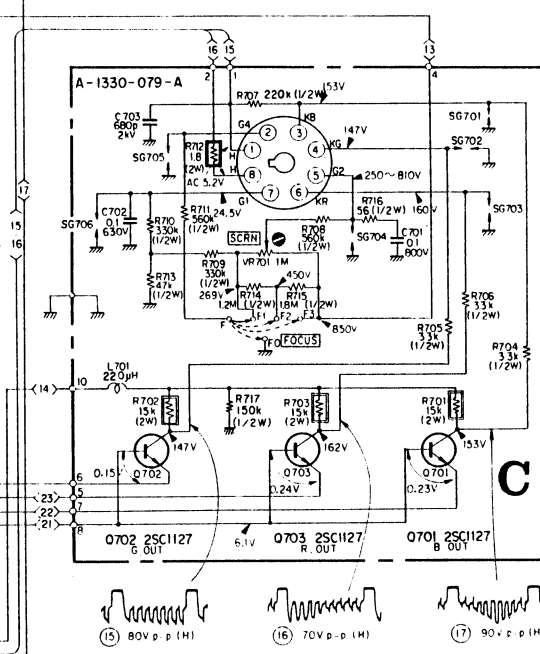


A-1305-061-A

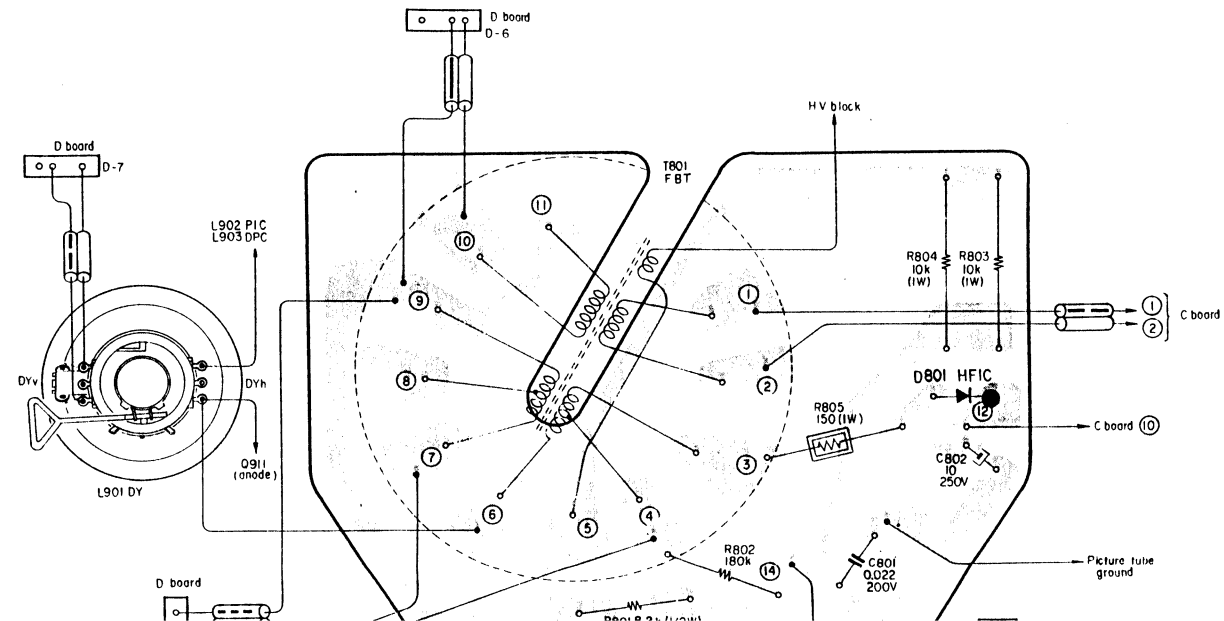
MC-Service



- Do not rub printed ink on the paper excessively.
- Do not touch the paper to heated resistors, soldering iron, solder, etc.



P



2SC1128
2SC1129

2SC1670

2SC1810

SG613

D

The symbol printed on the conductor side of circuit board indicates that complete connection should be especially made.



2SC1363

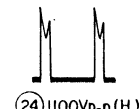
1T22
1T261
1T22A
1T40
1S1555
RD11E

SID30-13

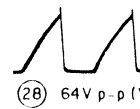
V09C
VIIN
U05E

EQA01-17R
SIB01-02

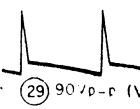
HFIC
HF12



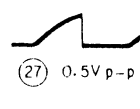
(24) 1100V p-p (H)



(28) 64V p-p (V)



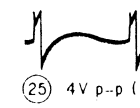
(29) 90V p-p (V)



(27) 0.5V p-p (V)

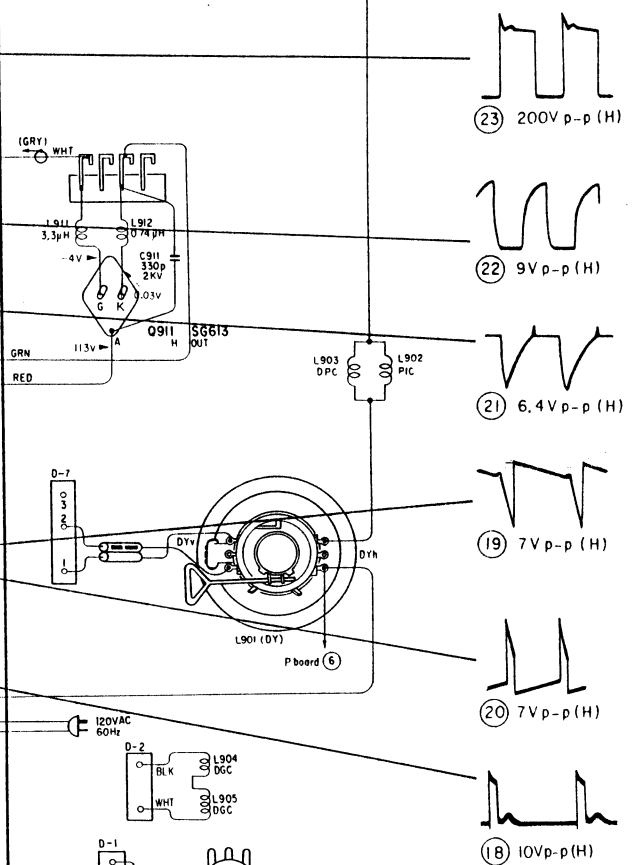
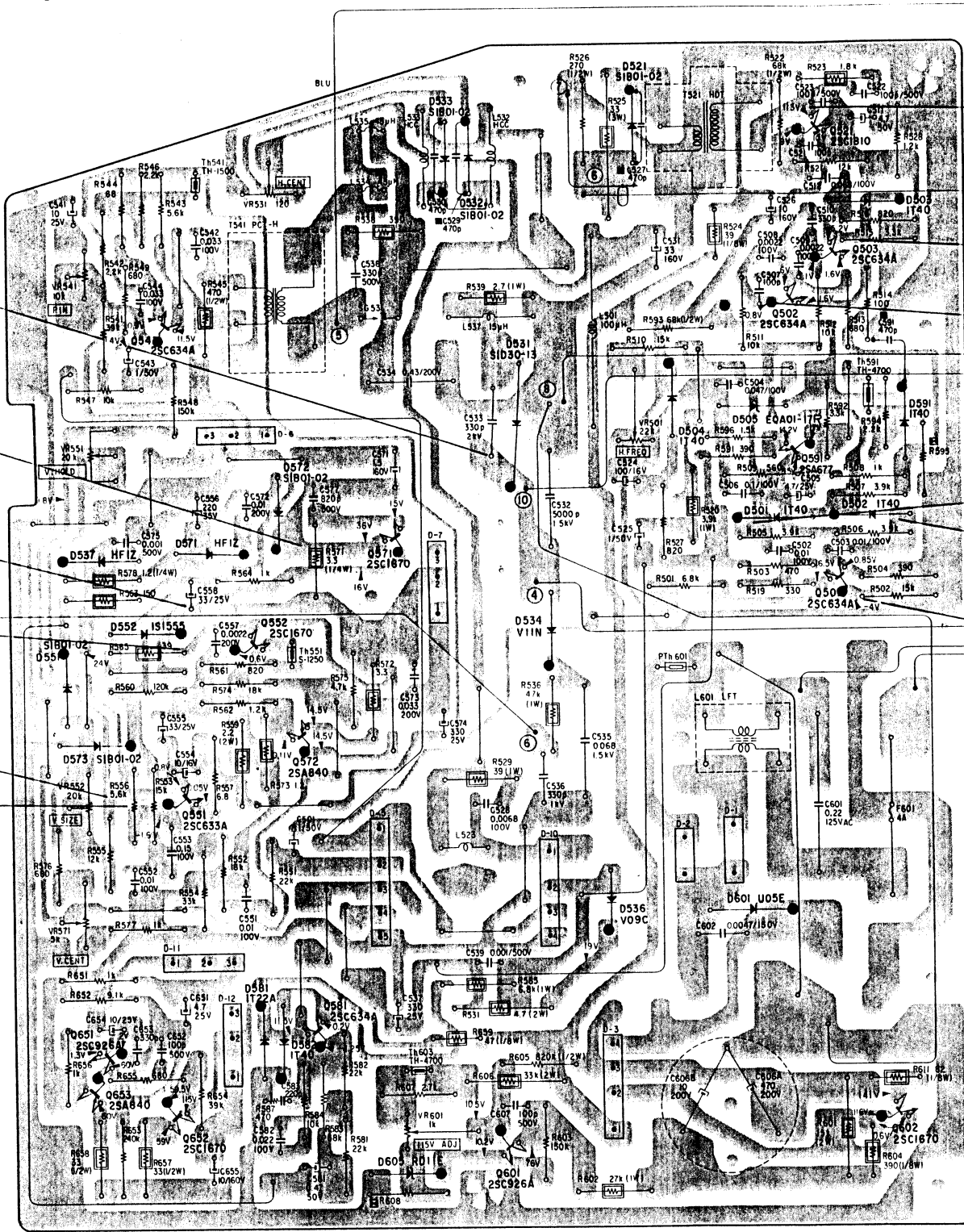
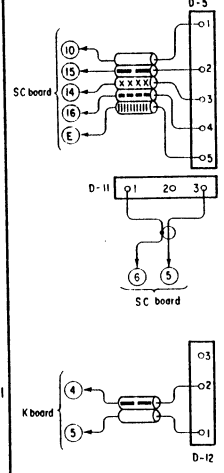


(26) 0.8V p-p (V)



(25) 4V p-p (V)

Q	D	ADJ
521	521	
533	532	VR531
503	503	
503	503	VR541
502	911	
541	541	
591	591	
504	505	VR501
531	591	VR551
572	502	
571	502	
571	537	
501	501	
552	554	
551	551	
572	573	
551	VR552	
536	601	VR571
581	581	
651	582	
901	901	
653	602	
652	VR601	
601	605	



A-1345-086-A

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MC-Service

77K0206-4
Printed in Japan

KV-1746R/1946R

RM-703

SERVICE MANUAL

CORRECTION

US Model

Correct the service manual as shown below.

Chassis No.

KV-1746R : SCC-341A-A

KV-1946R : SCC-342A-A


 : corrected portion

1. CIRCUIT ADJUSTMENTS

A board

No. 1

June, 1981

Page 16:  R563 ADJUSTMENT (KV-1746R)

Incorrect	Correct
2. Supply the $17.9V \pm 0.05V$ dc to TP85 with the regulated-dc power supply and confirm that the set is normally operated on any of all channels. (The HV hold down circuit does not operated.)	2. Supply the $18.1 \pm 0.05V$ dc to TP85 with the regulated-dc power supply and confirm that the set is normally operated on any of all channels. (The HV hold down circuit does not operated.)

A board

Page 16:  R563 ADJUSTMENT (KV-1946R)

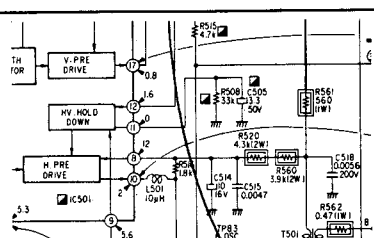
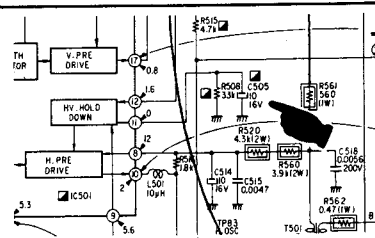
Incorrect	Correct
2. Supply the $18.3V \pm 0.1V$ dc to TP85 with the regulated-dc power supply and confirm that the set is normally operated on any of all channels. (The HV hold down circuit does not operated.)	2. Supply the $19.1V \pm 0.05V$ dc to TP85 with the regulated-dc power supply and confirm that the set is normally operated on any of all channels. (The HV hold down circuit does not operated.)

2. SCHEMATIC DIAGRAM

A board

Page 38:  C505 Part replaced (KV-1746R)

Page 46:  C505 Part replaced (KV-1946R)

Incorrect	Correct
	

3. ELECTRICAL PARTS LIST

Page 56: ELECTRICAL PARTS LIST (KV-1746R)

Page 66: ELECTRICAL PARTS LIST (KV-1946R)

Incorrect					Correct				
Ref.No	Part No	Description		Remark	Ref.No	Part No	Description		Remark
C 505	1-123-354-00	ELECT	3.3MF	20% 50V	C505	1-123-316-00	ELECT	10MF	20% 16V

CAPACITORS • MF : μF

Sony Corporation

TV and Consumer Video Group

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CTV

SONY
TRINITRON® COLOR TV

81F0450-1

Printed in Japan

9-962-711-91

MC-Service

SERVICE MANUAL

KV-1746R: Except for Serial No. 500001 to 518100.

SUPPLEMENT

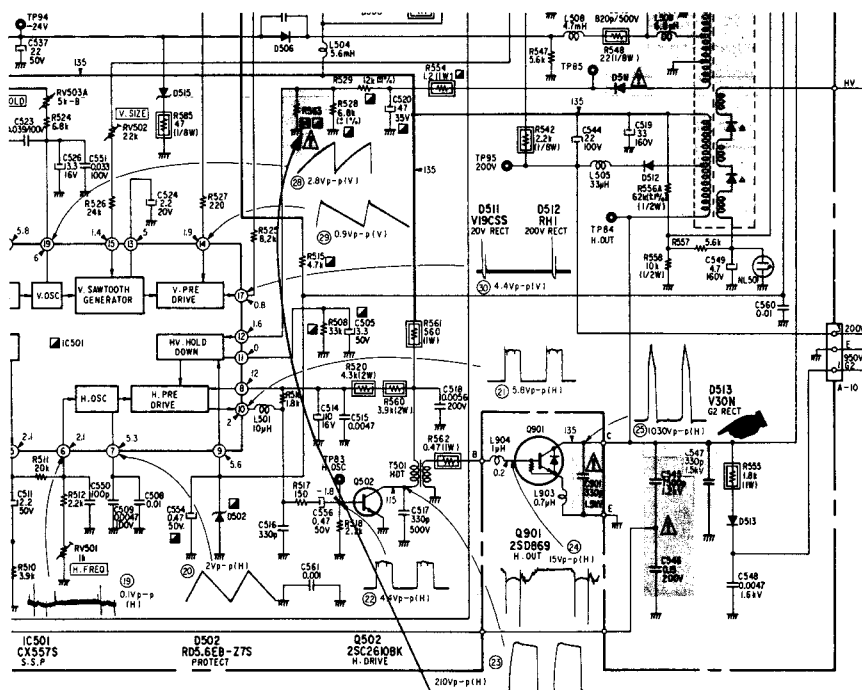
Subject: Modification of H. OUT circuit.

■ : changed portions

Page 56: ELECTRICAL PARTS LIST

Ref.No	Part No	Description	Remark
■	C547 A.1-102-327-00	ELECT 330P 20% 1.5KV	

Page 38: SCHEMATIC DIAGRAM
A Board



STANDARD PARTS LIST

ELECTROLYTIC CAPACITORS

CAP. (μF)	RATING → : Use the high voltage rated one.						
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.	63 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47						→	→
1.0						→	→
2.2						→	→
3.3						→	→
4.7				→	→	→	1-123-369-00
10			→	→	→	1-123-356-00	1-123-370-00
22			→	1-123-330-00	→	1-123-357-00	1-123-371-00
33	→	→	1-123-318-00	→	1-123-343-00	→	1-123-372-00
47	→	1-123-306-00	→	1-123-332-00	→	1-123-359-00	1-123-373-00
100	→	1-123-307-00	→	1-123-333-00	1-123-345-00	1-123-360-00	1-123-374-00
220	→	1-123-308-00	1-123-321-00	1-123-334-00	1-123-346-00	1-123-361-00	1-123-375-00
330	→	1-123-309-00	1-123-322-00	1-123-335-00	1-123-347-00	1-123-362-00	1-123-376-00
470	1-123-298-00	1-123-310-00	1-123-323-00	1-123-336-00	1-123-348-00	1-123-363-00	1-123-377-00
1000	1-123-299-00	1-123-311-00	1-123-324-00	1-123-337-00	1-123-349-00	1-123-364-00	1-123-378-00
2200	1-123-300-00	→	1-123-325-00	1-123-338-00	1-123-350-00		
3300	1-123-301-00	1-123-313-00	1-123-326-00	1-123-339-00			
4700	1-123-302-00	1-123-314-00	1-123-327-00				
6800	1-123-303-00	1-123-315-00					
10000	1-123-304-00						

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	1-123-379-00			
1.0	1-123-380-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-381-00	1-123-026-00	1-123-027-00	1-123-028-00
3.3	1-123-382-00	1-121-707-00	1-123-004-00	1-123-006-00
4.7	1-123-383-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-123-384-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-123-385-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-123-386-00	1-121-757-00		
47	1-123-387-00	1-121-919-00		
100	1-123-388-00			
220	1-123-389-00			
330	1-123-390-00			
470	1-123-391-00			

CERAMIC CAPACITORS

RATING							
CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (μF)	50 VOLT.
	PART No.		PART No.		PART No.		PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

MYLAR CAPACITORS

0.001μF = 1,000pF

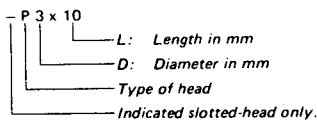
RATING											
CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.
	PART No.	PART No.	PART No.		PART No.	PART No.	PART No.		PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00		
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00		
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00		
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00		
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				

1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

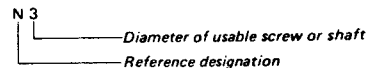
HARDWARE NOMENCLATURE

Screw:



Unless otherwise indicated, it means cross-recessed head (Phillips type).

Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

Sony Corporation
TV and Consumer Video Group

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9-962-711-01

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81CJ446-1
Printed in Japan

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